3Com Router 5000/6000 Family Quick Reference Guide

Overview

This Command Reference applies to the following Router 5000/6000 models running software version 3.0.

Router 5012 (3C13701)
Router 5232 (3C13751)
Router 5642 (3C13755)
Router 5682 (3C13701)
Router 6040 (3C13840)
Router 6080 (3C13880)

About the Command Line Interface

To use and navigate the command line interface of your unit, please refer to the following points for assistance:

- When initially accessing the command line interface, press Enter when prompted. The User View menu for the unit displays. This is indicated by the chevron brackets around the name of the unit at the prompt, for example, `<router5000-xx>` (where xx is either EI or SI).
- When in the System View menu, square brackets appear around the name of the unit at the prompt, for example, `[router5000-xx]`.
- You must be in the System View menu to access the configurable CLI commands.
- Some commands can be entered directly at any prompt from anywhere in the interface.
- If you enter part of a command followed by a **?** (with no space between), the CLI will show you all the commands that begin in that way.
- The term 'view' may be used interchangeably with the term 'menu'.
- The **undo** command is placed before the command you wish to undo, for example, **undo setauthentication** password.
- <CTRL-A> places the cursor back to the start of the command line.
- Enter the first few characters of a command and press TAB to enter the full command without having to input the entire command (where there is only one command that starts with the entered characters).
- Use the Up Arrow key at the prompt to repeat the previous command string.
- Use the Delete key to delete the character after the cursor; the Backspace key deletes the character before the cursor.
- When entering physical port numbers, Enter the port number as **x/0/z**, where x is the unit number and z is the physical port number.

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Displaying Command Parameters

At the prompt, enter the name of the command followed by a space and `?`. For example:

```
<router5000-xx>boot ?
```

The following parameters are displayed:

attribute-switch	Exchange the file main-attribute and backup-attribute.
boot-loader	Select a file to boot at the next time
bootrom	Update Bootrom
web-package	Set web resource package

To specify boot loader, enter the command as follows:

```
<router5000-xx>boot boot-loader ?
```

You only need to enter **?** if parameters exist for the command.

Displaying Parent Menus

At the prompt, enter **quit**.

Displaying the User View Menu

Press <CTRL-Z>.

Obtaining Help

At the prompt, enter `?`.

Further Information

For further information about how to use the command line interface, refer to the *Command Reference Guide* and the *Configuration Guide*, which are both available as PDF documents on the CD that accompanied the unit.

Commands

`l2tp-auto-client enable`

Use the **l2tp-auto-client enable** command to enable the LAC client to set up L2TP tunnel.

Virtual Template Interface view

`l2tp enable`

Use the **l2tp enable** command to enable the L2TP function.

System view

`l2tp-group`

Use the **l2tp-group** command to create an L2TP group.

System view

`l2tpmoreexam enable`

Use the **l2tpmoreexam enable** command to enable the multi-instance function of L2TP.

System view

`l2vpn-family`

Use the **l2vpn-family** command to create or enter an L2VPN address family view.

BGP view

`aaa-client`

Use the **aaa-client** command to enter Voice AAA view.

Voice view

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abr-summary

Use the **abr-summary** command to configure the route aggregation on the area border router (ABR).

OSPF Area view

access-limit

Use the **access-limit** command to configure a limit to the amount of supplicants in the current ISP domain.

ISP Domain view

acl-reflect timeout

Use the **acl-reflect timeout** command to set the global aging time of reflexive ACLs.

System view

acl

Use the **acl** command to create an access control list and enter ACL view.

System View

acl

Use the **acl** command to reference an ACL to control call-in and call-out of VTY (Telnet and SSH) users.

User Interface view

accounting

Use the **accounting** command to configure an accounting scheme for the current ISP domain.

ISP Domain view

accounting

Use the **accounting** command to set the IP address, port number and shared key for the primary and secondary RADIUS accounting servers.

RADIUS Scheme view

accounting

Use the **accounting** command to set the IP address, port number and shared key for the primary and secondary RADIUS accounting servers.

RADIUS Scheme view

accounting

Use the **accounting** command to set the IP address, port number and shared key for the primary and secondary TACACS+ accounting servers.

TACACS+ view

accounting commands

Use the **accounting commands** command to enable the system to start per-command accounting for terminal users logged into the user interface.

User Interface view

accounting domain

Use the **accounting domain** command to enable DHCP server accounting for addresses from the global DHCP address pools and configure a domain for DHCP accounting.

DHCP Address Pool view

accounting-on

Use the **accounting-on enable** command to enable the user re-authentication at reboot function.

RADIUS view

accounting optional

Use the **accounting optional** command to enable optional accounting.

ISP Domain view
RADIUS view

activate

Use the **activate** command to activate the ADSL interface.

ATM (ADSL) Interface view

activate

Use the **activate** command to enable the G.SHDSL interface.

ATM (G.SHDSL) Interface view

activation-key

Use the **activation-key** command to define a shortcut key or key combination for starting a terminal session.

User Interface view

address

Use the **address** command to configure the voice routing policy to the peer voice gateway.

Voice Entity view

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address

Use the **address** command to configure a route to the peer voice gateway or assign an X.121 address for a destination host.

Voice Entity view

address sip

Use the **address sip** command to set routing policy for reaching the remote voice gateway (VG) to SIP.

Voice Entity view

adsl standard

Use the **adsl standard** command to set the standard applied to the ADSL interface.

ATM (ADSL) Interface view

adsl tx_attenuation

Use the **adsl tx_attenuation** command to set attenuation value for ADSL transmit power.

ATM (ADSL) Interface view

adv-factor

Use the **adv-factor** command to configure the advantage factor which is used to count Mos and ICPIF value in a jitter voice test.

HWPing Test Group view

aggregate

Use the **aggregate** command to establish an aggregated record in the BGP routing table.

BGP view

aggregate

Use the **aggregate** command to create a multicast aggregated record in the BGP routing table.

Use the **aggregate** command without parameters to create one local aggregated route and set atomic aggregation attributes.

IPv4 Multicast Subaddress Family view

aging-time

Use the **aging-time** command to configure SYN status waiting timeout value and FIN status waiting timeout value of TCP, session entry idle timeout value of TCP and UDP.

ASPF Policy view

ah authentication-algorithm

Use the **ah authentication-algorithm** command to set the authentication algorithm adopted by Authentication Header protocol in IPSec proposal.

Use the **undo ah authentication-algorithm** command to restore the default setting.

IPSec Proposal view

ahdsl annex

Use the **shdsl annex** command to configure annex standard at an SHDSL interface. You cannot activate a link with different standard types at its two ends.

ATM (G.SHDSL) Interface view

alarm (CT3 Interface)

Use the **alarm** command to enable the CT3 interface to detect/send alarm signals.

CT3 Interface view

alarm-threshold

Use the **alarm-threshold** command to configure the alarm thresholds on the CT1/PRI interface as needed.

CT1/PRI Interface view

algorithm-suite

Use the **algorithm-suite** command to specify the algorithm suite used when a client registers.

Dvpn-Class view

allow l2tp

Use the **allow l2tp** command to specify the name of the peer end of the tunnel on receiving call and the Virtual-Template it uses.

L2TP Group view

annexg

Use the **annexg** command to enable T1.617 Annext G on the frame relay interface for data transmission.

DLCI view

ani

Use the **ani** command to enable or disable the terminating point to send the calling party information (service category and calling number) to the originating point during call connecting process.

R2 CAS view

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ani-offset

Use the **ani-offset** command to configure the number of digits of the called number to be collected prior to requesting the calling party information.

R2 CAS view

answer

Use the **answer** command to configure whether the terminating point is required to send answer signal.

R2 CAS view

apply access-vpn vpn-instance

Use the **apply access-vpn vpn-instance** command to specify to search private network forwarding routes in ***vpn-name1***, ***vpn-name2***, ***vpn-name3***, ***vpn-name4***, ***vpn-name5***, ***vpn-name6 (if they all exist)*** and forward packets after policy routing is enabled to satisfy route-policy.

Route-Policy view

apply as-path

Use the **apply as-path** command to specify the AS numbers to be added in front of the original AS path in route-policy.

Routing Policy view

apply community

Use the **apply community** command to set BGP community attributes in route-policy.

Routing Policy view

apply cost

Use the **apply cost** command to set the route cost value of route information.

Routing Policy view

apply cost-type

Use the **apply cost-type** command to set the route cost type of route information.

Routing Policy view

apply default output-interface

Use the **apply default output-interface** command to set default forwarding interface for packets.

Route-Policy view

apply ip-address

Use the **apply ip-address** command to set the next hop address of route information.

Routing Policy view

apply ip-address default next-hop

Use the **apply ip-address default next-hop** command to set the default next hop of a packet.

Route-Policy view

apply ip-address next-hop (for Multicast Policy Routing)

Use the **apply ip-address** command to configure the next hop IP address list in a route-node.

Route-Policy view

apply ip-address next-hop (for Unicast Policy Routing)

Use the **apply ip-address next-hop** command to set the packet next hop.

Route-Policy view

apply ip-dscp

Use the **apply ip-dscp** command to configure to modify the packet DSCP value matching the policy.

Route-Policy view

apply ip-precedence

Use the **apply ip-precedence** command to set precedence of IP packets.

Route-Policy view

apply isis

Use the **apply isis** command to apply the level of a matched route to be redistributed to Level-1, Level-2 or Level-1-2.

Routing Policy view

apply local-preference

Use the **apply local-preference** command to apply the local preference of route information.

Routing Policy view

apply mpls-label

Use the **apply mpls-label** command to assign MPLS labels for public network routes that match route-policy filter conditions.

Route-Policy view

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apply origin

Use the **apply origin** command to set the routing source of BGP routing information.

Routing Policy view

apply output-interface (for Multicast Policy Routing)

Use the **apply output-interface** command to configure an outgoing interface list in a route-node.

Route-Policy view

apply output-interface (for Unicast Policy Routing)

Use the **apply output-interface** command to set a packet forwarding interface.

Route-Policy view

apply policy outbound

Use the **apply policy outbound** command to set the frame relay virtual circuit queuing to CBQ (Class-Based Queuing).

Frame Relay Class view

apply tag

Use the **apply tag** command to set the tag area of OSPF route information.

Routing Policy view

area

Use the **area** command to enter OSPF area view.

OSPF view
OSPF Area view

area

Use the **area** command to configure the type of busy tone detection for FXO voice subscriber-line.

Voice Subscriber-line view

area-authentication-mode

Use the **area-authentication-mode** command to configure IS-IS to authenticate the received Level-1 routing information packets (LSP, CSNP and PSNP), according to the pre-defined mode and password.

IS-IS view

area-id (Voice Entity view)

Use the **area-id** command to configure the area ID of voice GW.

Voice Entity view

area-id (Voice GK Client view)

Use the **area-id** command to configure the H.323 gateway area ID.

Voice GK Client view

arp check enable

Use the **arp check enable** command to enable ARP entry check to have the device not learn the ARP entries with broadcast MAC addresses.

System view

arp-proxy enable

Use the **arp-proxy enable** command to enable proxy ARP on an interface.

Ethernet interface view

arp security

Use the **arp security** command to disable dynamic ARP learning on an Ethernet interface.

Ethernet Interface view

arp security time-out

Use the **arp security time-out** command to configure the aging time of the authorized ARP entries.

Ethernet Interface view

arp send-gratuitous-arp

Use the **arp send-gratuitous-arp** command to enable sending gratuitous ARP packet on this interface periodically and set the sending period.

Bridge Template view
Ethernet Interface view
Ethernet Subinterface view
Gigabit Ethernet Interface view
Gigabit Ethernet Subinterface view
Virtual Ethernet interface view
VLAN Interface view

arp static

Use the **arp static** command to configure ARP mapping table.

System view

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`arp timer aging`

Use the **arp timer aging** command to set the aging timer for dynamic ARP entries.

System view

`asbr-summary`

Use the **asbr-summary** command to configure summarization of redistributed routes by OSPF.

OSPF view

`ascii`

Use the **ascii** command to set the type of the transmitted data to ASCII.

FTP Client view

`aspf-policy`

Use the **aspf-policy** command to define an ASPF policy. For a defined policy, the policy can be invoked through its policy number.

System view

`async mode`

Use the **async mode** command to set the operating mode of the asynchronous serial interface.

Asynchronous Serial Interface view
AUX Interface view
AM Interface view

`async mode padpos`

Use the **async mode padpos** command to configure a POSPAD access port.

Asynchronous Serial Interface view
AUX Interface view

`async mode pos`

Use the **async mode pos** ***pos-number*** command to create a POS access port in nontransparent transmission and permanent TCP connection mode.

Asynchronous Serial Interface view
AM Interface view
FCM Interface view
AUX Interface view

`async mode posapp`

Use the **async mode posapp** command to configure the interface to operate in POS application mode.

Asynchronous Serial Interface view
AUX Interface view

`atm-class`

Use the **atm-class** command to apply a set of parameters (which are defined in ATM-Class) to an ATM interface or a PVC.

Interface view
PVC view

`atm class`

Use the **atm class** command to create an ATM-Class and enter the ATM-Class view.

System view

`atm-ctt`

Use the **atm-ctt** command to set all interfaces on a board to transparent transmission.

ATM Interface view

`atm-link check`

Use the **atm-link check** command to have the protocol state of the ATM P2P subinterface changes depending on whether the physical interface is up and whether a PVC is configured on the subinterface.

ATM P2P Subinterface view

`authentication`

Use the **authentication** command to configure an authentication scheme for the current ISP domain.

ISP Domain view

`authentication`

Use the **authentication** command to set the IP address, port number and shared key for the primary and secondary RADIUS authentication servers.

RADIUS Scheme view

`authentication`

Use the **authentication** command to set the IP address, port number and shared key for the primary and secondary TACACS+ authentication servers.

TACACS+ view

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`authentication`

Use the **authentication** command to enable user authentication and authorization for the access service number.

Voice Access-Number view

`authentication`

Use the **authentication** command to set the IP address, port number and shared key for the primary and secondary TACACS+ authentication servers.

TACACS+ view

`authentication-algorithm`

Use the **authentication-algorithm** command to select the authentication algorithm for an IKE proposal.

IKE Proposal view

`authentication-client method`

Use the **authentication-client method** command to specify how the DVPN server that applies the DVPN policy authenticates clients. None, CHAP, and PAP are currently available.

Dvpn-Policy view

`authentication-did`

Use the **authentication-did** command to enable authentication for all one-stage dial (direct dial) users.

Voice AAA view

`authentication-method`

Use the **authentication-method** command to select the authentication method used by an IKE proposal.

IKE Proposal view

`authentication-mode`

Use the **authentication-mode** command to set the authentication mode at login.

Use the **authentication-mode none** command to set the authentication mode to **none**, that is, no authentication at login.

User Interface view

`authentication-mode`

Use the **authentication-mode** command to configure one area of OSPF to support the authentication attribute.

OSPF Area view

`authentication-server method`

Use the **authentication-server method** command to specify a client whether or not to authenticates the DVPN server it accesses.

Dvpn-Class view

`authentication super hwtacacs-scheme`

Use the **authentication super hwtacacs-scheme** command to configure super authentication scheme for a domain.

ISP Domain view

`authorization`

Use the **authorization** command to configure an authorization scheme for the current ISP domain.

ISP Domain view

`authorization`

Use the **authorization** command to set the IP address, port number and shared key for the primary and secondary TACACS+ authorization servers.

TACACS+ view

`authorization-level`

Use the **authorization-level** command to configure a local caller authorization level for the voice entity.

Voice Entity view

`auto-config`

Use the **auto-config** command to implement the **auto-config** operation.

System view

`auto-config enable`

Use the **auto-config enable** command to enable **auto-config**.

System view

`auto-execute command`

Use the **auto-execute command** command to set a command to be automatically executed.

User Interface view

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balance

Use the **balance** command to configure the number of routes participating in BGP load balancing.

BGP view

band-based-sharing

Use the **band-based-sharing** command to enable bandwidth-based unbalanced load sharing.

System view

baudrate

Use the **baudrate** command to set the baud rate of a serial interface.

Serial Interface view

bert

Use the **bert** command to set test error bit for line Bit.

CE3 interface view

bert (CT1/PRI Interface)

Use the **bert** command to start a BERT test on the CT1/PRI interface.

CT1/PRI Interface view

bert (CT3 Interface)

Use the **bert** command to start a BERT test on the CT3 interface.

CT3 Interface view

bgp

Use the **bgp** command to enable BGP and enter the BGP view.

System view

This command is used to enable and disable BGP as well as to specify the local AS number of BGP.

bims boot request

Use the **bims boot request** command to enable the BIMS device to access the branch intelligent management system (BIMS) center at startup.

System view

bims device-id string

Use the **bims device-id** command to configure the unique identifier of the BIMS device at the BIMS center.

System view

bims enable

Use the **bims enable** command to enable BIMS.

System view

bims interval

Use the **bims interval** command to configure the interval for accessing the BIMS center. When the interval is set to 0, the BIMS device does not access the BIMS center regularly.

System view

bims ip address

Use the **bims ip address** command to configure the IP address and port number of the BIMS center.

System view

bims request

Use the **bims request** command to have the BIMS device access the BIMS center.

System view

bims-server

Use the **bims-server** command to enable and configure BIMS option for a global address pool on the DHCP server.

Global DHCP Address Pool view

bims sharekey

Use the **bims sharekey** command to configure the shared key between the BIMS device and the BIMS center.

System view

bims source ip-address

Use the **bims source ip-address** command to specify a source IP address for the packets sent by the BIMS device. It can be the IP address of a port on the router.

System view

bims specify-time

Use the **bims specify-time** command to configure the BIMS device to access the BIMS center at the specified time and if desired, configure the device to access the BIMS center at regular intervals from then on during a specified period.

System view

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binary

Use the **binary** command to set data type to binary for file transfer.

FTP Client view

boot bootrom

Use the **boot bootrom** command to upgrade BootRom.

System view

boot bootrom

Use the **boot bootrom** command to upgrade BootRom.

System view

bootfile backup

Use the **bootfile backup** command to specify the backup boot file.

System view

bootfile dir

Use the **bootfile dir** command to view information about all the boot files in the Flash, including file type, date, time, file size, and file name.

System view

bootfile main

Use the **bootfile main** command to specify the main boot file.

System view

bridge aging-time

Use the **bridge aging-time** command to configure the aging time of the dynamic address table.

System view

bridge bridge-set enable

Use the **bridge *bridge-set* enable** command to enable the specified bridge set.

System view

bridge bridging

Use the **bridge bridging** command to enable the bridging function of a network layer protocol on a specified bridge set.

System view

bridge enable

Use the **bridge enable** command to enable the bridging function.

System view

bridge learning

Use the **bridge learning** command to enable forwarding by dynamic address table.

System view

bridge mac-address

Use the **bridge mac-address** command to manually configure a static address table entry of bridge.

System view

bridge routing

Use the **bridge routing** command to enable the routing function of a specified bridge-set for the specified network protocol.

System view

bridge routing-enable

Use the **bridge routing-enable** command to enable the routing function of the bridge.

System view

bridge-set

Use the **bridge set** command to add an interface to a bridge set.

Interface view
Bridge Template view

bridge-set (Ethernet Interface view)

Use the **bridge-set (in the Ethernet Interface view)** command to add the Ethernet interface into the bridge.

Ethernet Interface view

bridge set (Synchronous Serial Interface view)

Use the **bridge-set (in Synchronous serial interface system view)** command to add the synchronous serial interface encapsulated into SDLC into the bridge group.

Synchronous Serial Interface view

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`bridge-set stp enable`

Use the **bridge-set stp enable** command to disable STP on the port.

Interface view

`bridge-set stp port pathcost`

Use the **bridge-set stp port pathcost** command to configure the path cost of the bridge port.

Interface view

`bridge-set stp port priority`

Use the **bridge-set stp port priority** command to configure the priority of the bridge port.

Interface view

`bridge stp ieee`

Use the **bridge stp ieee** command to specify a bridge set to support IEEE STP.

System view

`bridge stp max-age`

Use the **bridge stp max-age** command to set the Max Age timer on the bridge.

System view

`bridge stp priority`

Use the **bridge stp priority** command to assign a priority to the bridge.

System view

`bridge stp timer forward-delay`

Use the **bridge stp timer forward-delay** command to set the Forward Delay timer on the bridge.

System view

`bridge stp timer hello`

Use the **bridge stp timer hello** command to set the Hello Time timer on the bridge.

System view

`bridge vlanid-transparent-transmit enable`

Use the **bridge vlanid-transparent-transmit enable** command to enable VLAN ID transparent transmission.

Interface view

`broadcast-limit link`

Use the **broadcast-limit link** command to configure the maximum number of links that the virtual template supports for sending multicast or broadcast packets.

Virtual Template view

`broadcast suppression`

Use the **broadcast-suppression** command to restrict the broadcast traffic size on the port.

Ethernet Port view

`bsr-policy`

Use the **bsr-policy** command to restrict the range for valid BSR, preventing BSR spoofing.

PIM view

`bump`

Use the **bump** command to configure the standby PVC that will take over when a specified PVC goes down.

ATM Pvc-Group view

`busytone-t-th`

Use the **busytone-t-th** command to configure the threshold of busy tone detection.

FXO Voice Subscriber-Line view

`bye`

Use the **bye** command to disconnect from the remote FTP server and exit to user view.

FTP Client view

`bye`

Use the **bye** command to terminate the connection to the remote SFTP server and exit to system view as you would with the **exit** and **quit** commands.

SFTP Client view

`c-bsr`

Use the **c-bsr** command to configure a candidate BSR.

PIM view

`c-rp`

Use the **c-rp** command to configure the router to advertise itself as a candidate RP to BSR.

PIM view

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`ca identifier`

Use the **ca identifier** command to specify the CA this device trusts and have the "***name***" CA bound with this device.

PKI Domain view

`cable`

Use the **cable** command to set the cable length matching the CE1/PRI interface.

CE1/PRI Interface view

`cable`

Use the **cable** command to set the cable length of the ATM E1 interface.

ATM E1/T1 Interface view

`cable`

Use the **cable** command to configure the cable mode of ATM T3 cable, i.e., to set the distance between the router and the cable distribution frame.

ATM T3 Interface view

`cable (CT1/PRI Interface)`

Use the **cable** command to set cable attenuation and length on a CT1/PRI interface to match the distance of the transmission line.

CT1/PRI Interface view

`cable (CT3 Interface)`

Use the **cable** command to configure the length of the cable with which a CT3 interface is connected.

CT3 Interface view

`cache-sa-enable`

Use the **cache-sa-enable** command to enable the router to cache SA state.

MSDP view

`call-mode`

Use the **call-mode** command to configure a call-mode for calls between local router and peer router.

Voice Entity view

`callednumber receive-method`

Use the **callednumber receive-method** command to enable the device to place a call immediately after all digits of the called number are collected or after a pound sign (#), the terminator, is received.

Voice Access-Number view

`caller-permit`

Use the **caller-permit** command to configure the calling numbers that are permitted to call in.

Voice Entity view

`car`

Use the **car** command to configure traffic monitoring for a behavior.

Traffic Behavior view

`card-digit`

Use the **card-digit** command to configure the number of digits in a card number for an access service number.

Voice Access-Number view

`cas`

Use the **cas** command to enter the R2 CAS view and digital E&M Signaling view.

CE1/PRI Interface view

`cbs`

Use the **cbs** command to set the committed burst size of frame relay virtual circuit.

Frame Relay Class view

`ccc interface out-interface`

Use the **ccc interface out-interface** command to create a local CCC connection.

System view

`ccc interface transmit-lsp receive-lsp`

Use the **ccc interface transmit-lsp receive-lsp** command to create a remote CCC connection.

System view

`cd`

Use the **cd** command to change the current path on the SFTP server. If you do not specify the remote-path argument, the current path is displayed.

SFTP Client view

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cd

Use the **cd** command to change the current working directory of the user to the specified directory.

User view

cd

Use the **cd** command to change the current working directory path on the remote FTP server.

FTP Client view

cdr

Use the **cdr** command to configure the saving rule for call detail record.

Voice AAA view

cdup

Use the **cdup** command to quit to the upper directory.

SFTP Client view

cdup

Use the **cdup** command to return from the current working directory path to the upper directory.

FTP Client view

ce

Use the **ce** command to create a CE or modify the CE range.

MPLS L2VPN view

cell-packing

Use the **cell-packing** command to set the maximum number of cells to be packed in one PVC.

PVC view

certificate request entity

Use the **certificate request entity** command to specify the name of the entity for certificate request.

PKI Domain view

certificate request from

Use the **certificate request from** command to choose between CA and RA to register for certificate request.

PKI Domain view

certificate request mode

Use the **certificate request mode** command to decide between the manual or the auto request mode.

PKI Domain view

certificate request polling

Use the **certificate request polling** command to specify the interval between two polls and the retry times.

PKI Domain view

certificate request url

Use the **certificate request url** command to specify the server URL for certificate request through SCEP protocol. SCEP is a protocol specialized in the communication with authentication authorities.

PKI Domain view

channel

Use the **channel** command to add X.25 interface or XOT channel of one serial port to the current hunt group.

X.25 Hunt Group view

channel-set (CE1/PRI Interface)

Use the **channel-set** command to bundle some timeslots of a CE1/PRI interface into a channel-set.

CE1/PRI Interface view

channel-set (CT1/PRI Interface)

Use the **channel-set** command to bundle timeslots on the CT1/PRI interface into a channel-set.

CT1/PRI Interface view

channel-set timeslot

Use the **channel-set timeslot** command to configure a B channel for leased line service.

ISDN BRI Interface view

checkzero

Use the **checkzero** command to check the zero field of RIP-1 packet.

RIP view

cid display

Use the **cid display** command to enable caller identification display.

Voice Subscriber-Line view

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cid enable

Use the **cid enable** command to enable CID on the FXO interface.

Voice Subscriber-Line view

cid select-mode

Use the **cid select-mode** command to configure the route selection mode used by the calling party to set up VoFR calls.

DLCI view

cid send

Use the **cid send** command to enable the FXO or FXS module to send calling numbers to the IP side.

Voice Subscriber-Line view

cid type

Use the **cid type** command to configure the format of transmitted information about the calling party.

Voice Subscriber-Line view

cir

Use the **cir** command to set the CIR of frame relay virtual circuit.

Frame Relay Class view

cir allow

Use the **cir allow** command to set the CIR ALLOW of frame relay virtual circuit.

Frame Relay Class view

classifier behavior

Use the **classifier behavior** command to specify the behavior for the class in the policy.

Policy view

clear-forward-ack

Use the **clear-forward-ack** command to enable or disable the terminating point to respond by sending a clear-back signal when the originating point (calling party) disconnects a call.

R2 CAS view

clns enable

Use the **clns enable** command to enable CLNS.

System view

clns erpacket enable

Use the **clns erpacket enable** command to enable generation of error report packets.

System view

clns erpacket interval

Use the **clns erpacket interval** command to set the minimum interval to generate two successive error report packets.

System view

clns es-peer

Use the **clns es-peer** command to configure a static neighboring ES.

System view

clns net

Use the **clns net** command to assign an NET address to the IS.

System view

clns rdpacket enable

Use the **clns rdpacket enable** command to enable the router to send RD packets.

System view

clns rdpacket interval

Use the **clns rdpacket interval** command to set the minimum interval to generate RD packets.

System view

clns route-static

Use the **clns route-static** command to configure a static OSI route.

System view

clns timer rdpacket holding

Use the **clns timer rdpacket holding** command to set the holding time of the information a RD packet carries.

System view

clock

Use the **clock** command to set the clock mode of the ATM E1/T1 interface.

ATM E1/T1 Interface view

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clock

Use the **clock** command to set the clock mode of ATM E3/T3 interface.

ATM E3/T3 Interface view.

clock

Use the **clock** command to set the clock mode on an ATM interface.

ATM Interface view

clock

Use the **clock** command to specify ATM interface to use internal transmission clock signal.

ATM Master Interface view

clock

Use the **clock** command to set the clock mode of the CPOS interface.

CPOS Interface view

clock

Use the **clock** command to set the clock mode of the POS interface.

POS Interface view

clock (CE1/PRI Interface)

Use the **clock** command to set the clock mode on a CE1/PRI interface.

CE1/PRI Interface view

clock (CE3 Interface)

CE3 Interface view

clock (CT1/PRI Interface)

Use the **clock** command to set clocking on the CT1/PRI interface.

CT1/PRI Interface view

clock (CT3 Interface)

Use the **clock** command to set the clock mode on the CT3 interface.

CT3 Interface view

clock (Serial Interface)

Use the **clock** command to set clock selection mode for a synchronous serial interface.

Serial intervace view

clock datetime

Use the **clock datetime** command to set the current time and date of the router.

System view

clock summer-time

Use the **clock summer-time** command to set the name, and starting and ending time of the daylight saving time.

System view

clock timezone

Use the **clock timezone** command to set local time zone information.

System view

close

Use the **close** command to terminate the connection to the remote FTP server, but remain in FTP client view.

FTP Client view

cng-on

Use the **cng-on** command to enable comfort noise function.

Voice Subscriber-Line view

cngced-detection

Use the **cngced-detection** command to set the threshold parameters for CNG/CED signal detection.

Voice Subscriber-Line view

code (CEI/PRI Interface)

Use the **code** command to set the line code format for a CE1/PRI interface.

CE1/PRI Interface view

code (CT1/PRI Interface)

Use the **code** command to set the line code format on the CT1/PRI interface.

CT1/PRI Interface view

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code nrzi

Use the **code nrzi** command to set the digital signal coding format to None-Return-to-Zero-Inverse (NRZI) for a synchronous serial interface.

Synchronous Serial Interface view

code nrzi

Use the **code nrzi** command to configure the NRZI encoding of the synchronous serial port.

Synchronous Serial Interface System view

command-alias enable

Use the **command-alias enable** command to enable the command alias function.

System view

command-alias mapping

Use the **command-alias mapping** command to map an alias to a keyword.

System view

command-privilege

Use the **command-privilege level** command to assign a command level to the commands in a specified view.

System view

common-name

Use the **common-name** command to specify the common name of an entity, take User name for example.

PKI Entity view

compare-different-as-med

Use the **compare-different-as-med** command to enable comparison of MED values of routes from neighbors residing in different ASs when determining the best route.

BGP Unicast view
BGP Multicast view
VPNv4 view

compression

Use the **compression** command to configure the voice coding method according to priority level.

Voice Entity view

confederation id

Use the **confederation id** command to configure confederation identifier.

BGP view

confederation nonstandard

Use the **confederation nonstandard** command, the router can be compatible with the AS confederation not adopting RFC1965.

BGP view

confederation peer-as

Use the **confederation peer-as** command to specify the sub-ASs constituting a confederation.

BGP view

congestion-threshold

Use the **congestion-threshold** command to enable congestion management function of frame relay virtual circuit.

Frame Relay Class view

connection

Use the **connection** command to create a CE connection.

MPLS L2VPN CE view

connection-limit default

Use the **connection-limit default** command to configure the action when the limit policy is not available.

System view

connection-limit default amount

Use the **connection-limit default amount** command to set default threshold for connection limit.

System view

connection-limit enable

Use the **connection-limit enable** command to enable the connection limit function.

System view

connection-limit policy

Use the **connection-limit policy** command to create connection limit policy and enter its view.

System view

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`controller cpos`

Use the **`controller cpos`** command to enter CPOS interface view.

System view

`controller e1`

Use the **`controller e1`** command to enter CE1/PRI interface view.

System view

`controller e3`

Use the **`controller e3`** command to enter the CE3 interface view.

System view

`controller t1`

Use the **`controller t1`** command to enter a CT1/PRI interface view.

System view

`controller t3`

Use the **`controller t3`** command to enter the CT3 interface view.

System view

`copy`

Use the **`copy`** command to copy a file.

User view

`cost-style`

Use the **`cost-style`** command to set the cost type of an IS-IS packet received/sent by the router.

IS-IS view

`count`

Use the **`count`** command to configure the number of packets to be sent for each test.

HWPing Test Group view

`country`

Use the **`country`** command to specify the code of the country to which the entity belongs. It is a standard 2-byte code, e.g., CN for China.

PKI Entity view

`country-code`

Use the **`country-code`** command to configure the coding format of the modem connected to the serial interface.

Asynchronous Serial Interface view, AM Interface view

`cptone`

Use the **`cptone`** command to set the prompt tone played on the current voice subscriber-line to the specified country mode.

Voice Subscriber-Line view

`cpu-usage cycle`

Use the **`cpu-usage cycle`** command to set the CPU usage statistic interval.

System view

`crc`

Use the **`crc`** command to set the CRC length on the POS interface.

POS Interface view

`crc`

Use the **`crc`** command to configure CRC mode of the serial interface formed by CE1.

Synchronous Serial Interface view

`crc`

Use the **`crc`** command to configure CRC mode of the serial interface formed by CE3.

Synchronous Serial Interface view

`crc`

Use the **`crc`** command to configure CRC mode of the serial interface formed by CT1.

Synchronous Serial Interface view

`crc`

Use the **`crc`** command to configure CRC mode of the serial interface formed by CT3.

Synchronous Serial Interface view

`crl check disable`

Use the **`crl check disable`** command to disable CRL checking.

PKI Domain view

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`crl update-period`

Use the **`crl update-period`** command to specify the update period of CRL, which is the interval between local downloads of CRLs from CRL access server.

PKI Domain view

`crl url`

Use the **`crl url`** command to specify the distribution point URL for CRL.

PKI Domain view

`crp-policy`

Use the **`crp-policy`** command to restrict the range for valid C-RP and the group range served by each C-RP, preventing C-RP cheating.

PIM view

`ct1 alarm`

Use the **`t1 alarm`** command to enable the specified T1 line on the CT3 interface to detect/send alarm signals.

CT3 Interface view

`dampening`

Use the **`dampening`** command to make BGP route dampening valid or modify various BGP route dampening parameters.

BGP view

`data algorithm-suite`

Use the **`data algorithm-suite`** command to specify the algorithm suite used by IPSec SA (security association) to forward data.

Dvpn-Policy view

`data-coding (CT1/PRI Interface)`

Use the **`data-coding normal`** command to disable user data inversion on the CT1/PRI interface.

Use the **`data-coding inverted`** command to enable user data inversion on the CT1/PRI interface.

CT1/PRI Interface view

`data-flow-format`

Use the **`data-flow-format`** command to configure the unit in which data flows are sent to a RADIUS Server.

RADIUS view

`data-flow-format`

Use the **`data-flow-format`** command to configure the unit of data flows sent to the TACACS server.

TACACS+ view

`data ipsec-sa duration time-base`

Use the **`data ipsec-sa duration time-base`** command to set the lifetime of the IPSec SA used to encrypt DVPN data.

Dvpn-Policy view

`databits`

Use the **`databits`** command to set data bits on the user interface.

User Interface view

`datafill`

Use the **`datafill`** command to configure the data for padding test packets.

HWPing Test Group view

`datasize`

Use the **`datasize`** command to configure the size of test packets.

HWPing Test Group view

`datetime local`

Use the **`datetime local`** command to configure the Datetime information element in the Connect message to use local time in an ISDN call.

PRI and BSV Voice Interface Voice Subscriber Line view

`ddns domainname`

Use the **`ddns domainname`** command to configure a domain name whose domain name-to-IP address mapping on DNS needs update by using the service of the DDNS service provider.

DDNS Configuration view

`ddns password`

Use the **`ddns password`** command to configure a password for accessing the DDNS service provider.

DDNS Configuration view

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`ddns refresh`

Use the **ddns refresh** command to request the DDNS service provider to notify the DNS server that the bound IP address of the domain name specified by the **ddns domainname** command has changed.

DDNS Configuration view

`ddns server`

Use the **ddns-server** command to specify a DDNS service provider and enter its view. At present, only 3322.org is available.

System view

`ddns source interface`

Use the **ddns source-interface** command to configure the interface used for accessing the DDNS service provider.

DDNS Configuration view

`ddns username`

Use the **ddns username** command to configure a user name for accessing the DDNS service provider.

DDNS Configuration view

`debugging`

Use the **debugging** command to enable debugging.

FTP Client view

`debugging`

Use the **debugging** command to enable system debugging.

User view

`debugging l2tp`

Use the **debugging l2tp** command to enable L2TP debugging.

System view

`debugging arp packet`

Use the **debugging arp packet** command to enable ARP packets debugging.

User view

`debugging aspf`

Use the **debugging aspf** command to enable ASPF debugging function.

User view

`debugging atm all`

Use the **debugging atm all** command to enable all the debugging switches of ATM.

User view

`debugging atm error`

Use the **debugging atm error** command to enable the error debugging of ATM.

User view

`debugging atm event`

Use the **debugging atm event** command to enable the event debugging of ATM.

User view

`debugging atm packet`

Use the **debugging atm packet** command to enable the packet debugging of ATM.

User view

`debugging bgp`

Use the **debugging bgp** command to enable debugging of specified BGP packets and events.

User view

`debugging bgp mp-update`

Use the **debugging bgp mp-update** command to enable MBGP Update packet debugging.

User view

`debugging bims all`

Use the **debugging bims all** command to enable BIMS debugging.

User view

`debugging bridge`

Use the **debugging bridge** command to enable the debugging function of a bridge set.

User view

`debugging clns clnp`

Use the **debugging clns clnp** command to enable debugging for CLNS packets to display the contents of all received/transmitted CLNP packets.

User view

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`debugging clns echo`

Use the **debugging clns echo** command to enable debugging for Echo packets.

User view

`debugging clns rd`

Use the **debugging clns rd** command to enable debugging for RD packets.

User view

`debugging clns routing`

Use the **debugging clns routing** command to enable debugging for Layer 3 routing tables.

User view

`debugging connection-limit`

Use the **debugging connection-limit** command to enable connection limit debugging.

User view

`debugging detect-group`

Use the **debugging detect-group** command to enable auto detect debugging.

User view

`debugging dhcp client`

Use the **debugging dhcp client** command to enable debugging on the DHCP client.

User view

`debugging dhcp relay`

Use the **debugging dhcp relay** command to enable debugging on the DHCP-relay module.

User view

`debugging dhcp server`

Use the **debugging dhcp server** command to enable debugging on the DHCP server.

User view

`debugging dialer`

Use the **debugging dialer** command to enable DCC debugging.

System view

`debugging dlsw`

Use the **debugging dlsw** command to enable DLSw debugging.

User view

`debugging dlsw ethernet-backup`

Use the **debugging dlsw ethernet-backup** command to enable debugging for DLSw Ethernet redundancy.

User view

`debugging dlsw filter`

Use the **debugging dlsw filter** command to enable debugging for DLSw filtering.

User view

`debugging dlsw packet`

Use the **debugging dlsw packet** command to enable SSP packet debugging for DLSw.

User view

`debugging dlsw reachable-cache`

Use the **debugging dlsw reachable-cache** command to enable DLSw reachability debugging.

User view

`debugging dlsw udp`

Use the **debugging dlsw udp** command to enable UDP packet debugging for DLSw.

User view

`debugging dns`

Use the **debugging dns** command to enable DNS client debugging.

User view

`debugging dvpn`

Use the **debugging dvpn** command to enable DVPN debugging.

User view

`debugging encrypt-card`

Use the **debugging encrypt-card** command to enable debugging on the specified or all encryption cards.

User view

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`debugging esis`

Use the **debugging esis event** command to enable debugging for ES-IS protocol-related events. You can display event information using this command, such as changes of neighbor states, entries in Level 0 routing table, and interface states.

Use the **debugging esis packet** command to enable debugging for ES-IS packets. You display information about received/transmitted ES-IS packets, such as packet size, packet type, packet HT, and Layer 2 and Layer 3 address.

User view

`debugging firewall`

Use the **debugging firewall** command to enable the information debugging of the firewall packet filtering.

User view

`debugging fr`

Use the **debugging fr** command to enable frame relay information debugging.

User view

`debugging fr compress`

Use the **debugging fr compress** command to enable FRF9 IPHC debugging of frame relay.

User view

`debugging fr compression`

Use the **debugging fr compression iphc** command to enable FRF20 IPHC debugging of frame relay.

User view

`debugging fr pvc-group`

Use the **debugging fr pvc-group** command to enable debugging for the specified PVC group or all PVC groups.

User view

`debugging hdlc clns`

Use the **debugging hdlc clns** command to enable debugging for HDLC OSI packets.

User view

`debugging hwatacs`

Use the **debugging hwtacacs** command to enable TACACS+ debugging.

User view

`debugging hwping`

Use the **debugging hwping** command to enable HWPing debugging.

User view

`debugging igmp`

Use the **debugging igmp** command to enable IGMP debugging functions.

User view

`debugging ike`

Use the **debugging ike** command to enable IKE debugging.

User view

`debugging ike dpd`

Use the **debugging ike dpd** command to enable IKE DPD debugging.

User view

`debugging ip`

Use the **debugging ip icmp** command to enable the ICMP debugging.

User view

`debugging ip count`

Use the **debugging ip count** command to enable debugging for the IP Accounting module (the IP Accounting).

User view

`debugging ip multicast-policy`

Use the **debugging ip multicast-policy** command to enable the debugging of IP multicast policy routing.

User view

`debugging ip netstream`

Use the **debugging ip netstream** command to enable NetStream debugging.

User view

`debugging ip urpf`

Use the **debugging ip urpf** command to display the information on the rejected packets by URPF.

User view

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`debugging ipsec`

Use the **debugging ipsec** command to turn IPSec debugging on.

User view

`debugging ipx packet`

Use the **debugging ipx packet** command to enable IPX packet debugging switch to view the contents of IPX packet received and transmitted.

User view

`debugging ipx ping`

Use the **debugging ipx ping** command to enable IPX Ping packet debugging switch to view the contents of Ping packet received and transmitted.

User view

`debugging ipx rip`

Use the **debugging ipx rip** command to enable RIP debugging switch to view information on RIP packet received and transmitted, routing changes and timer expiry.

User view

`debugging ipx rtpro-flash`

Use the **debugging ipx rtpro-flash** command to turn on the debugging switch of route refreshing in the IPXRM module.

User view

`debugging ipx rtpro-interface`

Use the **debugging ipx rtpro-interface** command to turn on the debugging switch of interface change in the IPXRM module.

User view

`debugging ipx rtpro-routing`

Use the **debugging ipx rtpro-routing** command to turn on the debugging switch of route change in the IPXRM module.

User view

`debugging ipx sap`

Use the **debugging ipx sap** command to enable IPX SAP debugging switch to view information on SAP packet received and transmitted, routing changes and timer expiry.

User view

`debugging isdn`

Use the **debugging isdn** command to enable ISDN debugging.

User view

`debugging isis`

Use the **debugging isis** command to enable IS-IS debugging.

User view

`debugging isis es-adjacency`

Use the **debugging isis es-adjacency** command to enable debugging for IS-IS protocol-related events occur on neighboring ESs.

User view

`debugging isis is-adjacency`

Use the **debugging isis is-adjacency** command to enable debugging for IS-IS protocol-related events occur on neighboring ISs.

User view

`debugging lapd`

Use the **debugging lapb** command to enable LAPB debugging.

User view

`debugging llc2`

Use the **debugging llc2** command to enable the LLC2 debugging.

User view

`debugging llc2 packet`

Use the **debugging llc2 packet** command to enable U frame debugging for LLC2.

User view

`debugging local-server`

Use the **debugging local-server** command to enable debugging for the local RADIUS authentication server.

User view

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`debugging mobile-ip advertise`

Use the **debugging mobile-ip advertise** command to enable debugging for mobility agent advertisements.

User view

`debugging mobile-ip mobile-router`

Use the **debugging mobile-ip mobile-route** command to enable debugging for an MR.

User view

`debugging mobile-ip node`

Use the **debugging mobile-ip node** command to enable debugging for MIP packets and events.

User view

`debugging modem`

Use the **debugging modem** command to enable Modem debugging.

User view

`debugging mpls l2vpn`

Use the **debugging mpls l2vpn** command to view L2VPN link information.

User view

`debugging mpls ldp`

Use the **debugging ldp** command to enable debugging of LDP messages.

User view

`debugging mpls lspm`

Use the **debugging mpls lspm** command to enable various LSP debugging.

User view

`debugging msdp`

Use the **debugging msdp** command to enable MSDP debugging functions.

User view

`debugging multicast forwarding`

Use the **debugging multicast forwarding** command to enable multicast packet forwarding debugging functions.

User view

`debugging multicast kernel-routing`

Use the **debugging multicast kernel-routing** command to enable multicast kernel routing debugging functions.

User view

`debugging multicast status-forwarding`

Use the **debugging multicast status-forwarding** command to enable multicast forwarding status debugging functions.

User view

`debugging nat`

Use the **debugging nat** command to enable the NAT debugging function.

User view

`debugging ntp-service`

Use the **debugging ntp-service** command to enable NTP service debugging.

User view

`debugging ospf`

Use the **debugging ospf** command to enable OSPF debugging.

User view

`debugging pad`

Use the **debugging pad** command to enable PAD debugging.

User view

`debugging physical`

Use the **debugging physical** command to enable debugging of the physical module on the specified interface.

User view

`debugging pim common`

Use the **debugging pim common** command to enable common PIM debugging functions.

User view

`debugging pim dm`

Use the **debugging pim dm** command to enable PIM-DM debugging functions.

User view

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debugging pim sm

Use the **debugging pim sm** command to enable PIM-SM debugging functions.

User view

debugging pki

Use the **debugging pki** command to enable PKI debugging functions.

Any view

debugging portal

Use the **debugging portal** command to enable portal debugging.

User view

debugging pos

Use the **debugging pos event** command to enable event debugging for the POS access service.

Use the **debugging pos error** command to enable error debugging for the POS access service.

Use the **debugging pos packet** command to enable packet debugging for the POS access service.

Use the **debugging pos all** command to enable all debugging for the POS access service.

User view

debugging pos-app

Use the **debugging pos-app** command to enable debugging for the specified or all POS applications.

User view

debugging pos-interface

Use the **debugging pos-interface** command to enable debugging for the specified or all POS access ports.

User view

debugging ppp { all | cbcp | ccp | scp }

Use the **debugging ppp { all | cbcp | ccp | scp }** command to enable PPP related cbcp, ccp, scp or all debugging.

User view

debugging ppp { chap | pap }

Use the **debugging ppp { chap | pap }** command to enable PPP related CHAP or PAP debugging.

User view

debugging ppp { core | ip | ipcp | lcp | lqc | mp }

Use the **debugging ppp { core | ip | ipcp | lcp | lqc | mp }** command to enable PPP related core, ip, ipcp, lcp, lqc or mp debugging.

User view

debugging ppp compression iphc rtp

Use the **debugging ppp compression iphc rtp** command to view debugging information about IP/UDP/RTP header compression in IP header compression.

User view

debugging ppp compression iphc tcp

Use the **debugging ppp compression iphc tcp** command to view the single packet information of the IP/TCP header compression.

User view

debugging pppoe-client

The command **debugging pppoe-client** is used to enable PPPoE Client debugging switch.

User view

debugging pppofr

Use the **debugging pppofr** command to enable PPPoFR debugging.

User view

debugging qllc

Use the **debugging qllc** command to enable QLLC debugging.

User view

debugging radius

Use the **debugging radius** command to enable RADIUS debugging.

User view

debugging rip

Use the **debugging rip** command to enable RIP debugging.

User view

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`debugging rlogin`

Use the **debugging rlogin** command to enable remote login (rlogin) debugging.

User view

`debugging rsh`

Use the **debugging rsh** command to enable RSH debugging.

User View

`debugging sdlc`

Use the **debugging sdlc** command to enable the SDLC debugging.

User view

`debugging slip`

Use the **debugging slip** command to enable the debugging switch of the SLIP protocol.

User view

`debugging snmp-agent`

Use the **debugging snmp-agent** command to enable SNMP agent debugging and specify the information to be output.

User view

`debugging standby event`

Use the **debugging standby event** command to enable debugging of the backup center.

User view

`debugging stp`

Use the **debugging stp** command to enable STP debugging.

User view

`debugging ssh client`

Use the **debugging ssh client** command to enable SSH client debugging.

User view

`debugging ssh server`

Use the **debugging ssh server** command to output information such as the negotiation process regulated by SSH1.5 protocol to information center as debugging formation and to debug a user interface separately.

User view

`debugging tcp event`

Use the **debugging tcp event** command to enable TCP events debugging.

User view

`debugging tcp md5`

Use the **debugging tcp md5** command to enable the MD5 authentication debugging of the TCP connection.

User view

`debugging tcp packet`

Use the **debugging tcp packet** command to enable the debugging of TCP connection. The number of debugging switches users can enable is limited, that is, at the same time only a fixed number of debugging switches can be enabled (combination of task ID and socket ID).

User view

`debugging telnet`

Use the **debugging telnet** command to enable Telnet connection debugging.

User view

`debugging tunnel`

Use the **debugging tunnel** command to enable tunnel debugging.

User view

`debugging tftp-server`

Use the **debugging tftp-server** command to enable TFTP server debugging.

User view

`debugging udp-helper`

Use the **debugging udp-helper** command to enable UDP Helper debugging.

User view

`debugging udp packet`

Use the **debugging udp packet** command to enable the debugging of UDP connection.

User view

`debugging voice cm`

Use the **debugging voice cm** command to enable debugging for CM.

User view

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`debugging voice data-flow`

Use the **debugging voice data-flow** command to enable debugging for voice data processes.

User view

`debugging voice dpl`

Use the **debugging voice dpl** command to enable the debugging of voice dial program.

User view

`debugging voice fax`

Use the **debugging voice fax** command to enable fax debugging.

User view

`debugging voice h225`

Use the **debugging voice h225** command to enable debugging for the H.225.0 negotiation messages or events.

User view

`debugging voice h245`

Use the **debugging voice h245** command to enable debugging for the H.245 negotiation messages or events.

User view

`debugging voice ipp`

Use the **debugging voice ipp** command to enable H.323 recommendation suite module debugging.

User view

`debugging voice r2`

Use the **debugging voice r2** command to enable the corresponding debugging in R2 signaling module.

Use the **debugging voice r2 ccb** command to view the information of the corresponding control block by specifying the E1 port number and time slot number.

User view

`debugging voice ras`

Use the **debugging voice ras** command to enable the debugging information output switch of RAS messages interacted between GK Client and GK Server.

User view

`debugging voice rcv`

Use the **debugging voice rcv** command to enable the debugging of the RCV module.

User view

`debugging voice rcv r2`

Use the **debugging voice rcv r2** command to enable the debugging between the RCV module and the R2 module of bottom layer.

User view

`debugging voice sip`

Use the **debugging voice sip** command to enable SIP debugging.

User view

`debugging voice sip rm`

Use the **debugging voice sip rm** command to enable debugging for RM module.

User view

`debugging voice sip sm`

Use the **debugging voice sip cm** command to enable debugging for SM module.

User view

`debugging voice vas`

Use the **debugging voice vas** command to enable the VAS module debugging.

User view

`debugging voice vas fax`

Use the **debugging voice vas fax** command to enable the debugging of fax data access between the VAS module and voice card.

User view

`debugging voice vcc`

Use the **debugging voice vcc** command to enable the debugging at various levels of the VCC module.

User view

`debugging voice vmib`

Use the **debugging voice vmib** command to enable the voice MIB module debugging.

User view

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`debugging voice vofr`

Use the **debugging voice vofr** command to enable VoFR module debugging.

User view

`debugging voice vpp`

Use the **debugging voice vpp** command to enable the debugging of the VPP module.

User view

`debugging voice vpp r2`

Use the **debugging voice vpp r2** command to enable the debugging between the VPP module and the R2 module of bottom layer.

User view

`debugging vrrp`

Use the **debugging vrrp** command to enable VRRP debugging.

User view

`debugging vty`

Use the **debugging vty** command to enable VTY debugging.

User view

`debugging web java-blocking`

Use the **debugging web java-blocking** command to enable Java blocking debugging.

User view

`debugging web url-filter host`

Use the **debugging web url-filter host** command to enable the URL address filtering debugging.

User view

`debugging web url-filter parameter`

Use the **debugging web url-filter parameter** command to enable the URL parameter filtering debugging.

User view

`debugging x25`

Use the **debugging x25** command to enable X.25 debugging.

User view

`debugging x25 x2t`

Use the **debugging x25 x2t** command to enable X2T debugging.

System view

`debugging x25 xot`

Use the **debugging x25 xot** command to enable XOT debugging

User view

`default`

Use the **default** command to restore the default of all the R2 configurations and reset the R2 call statistics to 0.

R2 CAS view

`default cost`

Use the **default cost** command to configure the default cost for OSPF to redistribute external routes.

OSPF view

`default-cost`

Use the **default-cost** command to configure the cost of the default route transmitted by OSPF to the STUB or NSSA area.

OSPF Area view

`default cost`

Use the **default cost** command to configure the default routing cost of a redistributed route.

RIP view

`default entity compression`

Use the **default entity compression** command to globally configure the mode of coding and decoding as the default value.

Voice Dial Program view

`default entity fax`

Use the **default entity fax** command to set the default fax parameter settings globally.

Voice Dial Program view

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`default entity modem compatible-param`

Use the **default entity modem compatible-param** command in the case that you fail to use standard Modem PCM to interoperate with devices from other vendors.

Voice Dial Program view

`default entity modem protocol`

Use the **default entity modem protocol none** command to globally disable Modem function of voice entity.

Use the **default entity modem protocol pcm** command to globally configure PCM Modem protocol type of voice entity, including coding/decoding and Modem negotiation mode.

Voice Dial Program view

`default entity normal-connect slow-h245`

Use the **default entity normal-connect slow-h245** command to globally disable the calling end from actively initiating an H245 connection request to the called end before the called end is hooked off.

Use the **default entity normal-connect slow-h245** command to default to globally disable the calling end from actively initiating the H245 connection request to the called end before the called end is hooked off. In this case, all newly created voice entities and voice entities which have not been configured with this function will inherit this configuration.

Voice Dial Program view

`default entity payload-size`

Use the **default entity payload-size** command to configure the default time length of voice packets with different coding formats.

Voice Dial Program view

`default entity service data`

Use the **default entity service data** command to globally configure enabling data call service.

Voice dial program view

`default entity vad-on`

Use the **default entity vad-on** command to globally configure enabling silence detection as the default value.

Voice Dial Program view

`default interval`

Use the **default interval** command to configure the default interval for OSPF to redistribute external routes.

OSPF view

`default limit`

Use the **default limit** command to configure default value of maximum number of redistributed routes.

OSPF view

`default local-preference`

Use the **default local-preference** command to configure the local preference.

BGP Unicast view
BGP Multicast view
VPNv4 view

`default med`

Use the **default med** command to configure the system MED value.

BGP Unicast view
BGP Multicast view
VPNv4 view
VPN Instance view

`default-route-advertise`

Use the **default-route-advertise** command to configure the default route of Level-1 and Level-2 routers.

IS-IS view

`default-route-advertise`

Use the **default-route-advertise** command to make the system generate a default route to OSPF area.

Use the **default-route-advertise** command at ABR to generate a default route which is advertised via the Type-5 LSA or Type-7 LSA no matter whether there is a default route in the routing table.

OSPF view

`default-route imported`

Use the **default-route imported** command to redistribute local default routes into BGP.

BGP view

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`default tag`

Use the **`default tag`** command to configure the default tag of OSPF when it redistributes an external route.

OSPF view

`default type`

Use the **`default type`** command to configure the default type when OSPF redistributes external routes.

OSPF view

`delay`

Use the **`delay`** command to configure the related time parameters at the digital E&M subscriber-line (E1 controller).

Digital E&M Voice Subscriber-Line view

`delay`

Use the **`delay`** command to configure the relevant time parameters on an FXO or analog E&M subscriber-line.

FXO Voice Subscriber-Line view

`delay-reversal`

Use the **`delay-reversal`** command to configure the timer's interval of polarity-reverse transmission delay on FXS interfaces.

Voice Subscriber-Line view

`delete`

Use the **`delete`** command to delete the specified file.

FTP Client view

`delete`

Use the **`delete`** command to delete the specified file from the server as you would with the **`remove`** command.

SFTP Client view

`delete`

Use the **`delete`** command to move the specified file from the storage device to the recycle bin, where you can completely delete the file with the **`undelete`** command or restore it with the **`reset recycle-bin`** ***`filename`*** command.

User view

`delete rpf-route-static all`

Use the **`delete rpf-route-static all`** command to delete all the static multicast routes.

System view

`delete static-routes all`

Use the **`delete static-routes all`** command to cancel all the static routes.

System view

`description`

Use the **`description`** command to configure port description. Identifying a port is the only function of this command.

Ethernet Port view

`description`

Use the **`description`** command to briefly describe a test operation.

HWPing Test Group view

`description`

Use the **`description`** command to describe the interface.

Interface view

`description`

Use the **`description`** command to configure description information for a specified VPN instance.

Vpn-Instance view

`description (in Voice Entity View)`

Use the **`description`** command to configure a voice entity description string.

Voice Entity view

`description (in Voice Subscriber-Line View)`

Use the **`description`** command to configure a subscriber-line description character string.

FXO Voice Subscriber-Line view

`destination`

Use the **`destination`** command to specify the destination IP address to be filled in the added IP header at the time of tunnel interface encapsulation.

Tunnel Interface view

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destination-ip

Use the **destination-ip** command to configure the destination IP address in the test.

HWPing Test Group view

destination-port

Use the **destination-port** command to configure the destination port in the test.

HWPing Test Group view

detect

Use the **detect** command to specify ASPF policy for application layer protocols.

ASPF Policy view

detect

Use the **detect** command to enable data carrier detection as well as level detection on a serial interface.

Asynchronous Serial Interface view
Synchronous Serial Interface view,

detect-ais (CE1/PRI Interface)

Use the **detect-ais** command to enable alarm indication signal (AIS) detect on the CE1/PRI interface.

CE1/PRI Interface view

detect group

Use the **detect-group** command to create a detect group and enter its view.

System view

detect list

Use the **detect-list** command to add an IP address to the detect group and assign the address a detecting sequence number.

Detect Group view

dh

Use the **dh** command to select the Diffie-Hellman group for an IKE proposal.

IKE Proposal view

dhcp accounting domain (Interface view)

Use the **dhcp server accounting domain** command to enable DHCP accounting for addresses from the interface address pool and configure a domain for DHCP accounting.

Interface view

dhcp enable

Use the **dhcp enable** command to enable DHCP.

System view

dhcp relay information

Use the **dhcp relay information enable** command to enable the DHCP relay to support option 82 globally.

System view

dhcp relay information strategy

Use the **dhcp relay information strategy** command to configure a strategy for handling packets with option 82 on the DHCP relay.

System view

dhcp relay release

Use the **dhcp relay release** command to send an IP address releasing request to a DHCP server via the DHCP relay.

Interface view
System view

dchp select (Interface view)

Use the **dhcp select** command in Interface view to select a method for disposing the DHCP packets destined to the local device.

Interface view

dchp select (System view)

Use the **dhcp select** command in System view to select a method for multiple interfaces in a specified range to dispose the DHCP packets destined to the local device.

System view

dhcp server accounting domain interface (System view)

Use the **dhcp server accounting domain interface** command to enable DHCP accounting for addresses from the address pools of the specified interfaces and configure a domain for DHCP accounting.

System view

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dhcp server bims-server (Interface view)

Use the **dhcp server bims-server** command to enable and configure BIMS option support on the current interface.

Ethernet Interface (or Subinterface) view

dhcp server bims-server interface (System view)

Use the **dhcp server bims-server interface** command to enable and configure BIMS option support for an interface or all interfaces configured with interface address pools.

System view

dhcp server detect

Use the **dhcp server detect** command to enable pseudo-DHCP-server detection.

System view

dhcp server dns-list

Use the **dhcp server dns-list** command in interface view to configure DNS IP addresses for an interface configured with a DHCP address pool.

Ethernet Interface (or Subinterface) view

dhcp server dns-list interface (System view)

Use the **dhcp server dns-list interface** command to assign DNS IP addresses to the DHCP address pool of multiple interfaces in a specified range.

System view

dhcp server domain-name (Interface view)

Use the **dhcp server domain-name** command in interface view to configure the domain name that the DHCP address pool of the current interface allocates to clients.

Ethernet Interface (or Subinterface) view

dhcp server domain-name interface (System view)

Use the **dhcp server domain-name interface** command in system view to configure the domain name that the DHCP address pool of the interfaces in a specified range allocates to DHCP clients.

System view

dhcp server expired (Interface view)

Use the **dhcp server expired** command in interface view to configure a valid period allowed for leasing IP addresses in the current interface DHCP address pool.

Ethernet Interface (or Subinterface) view

dhcp server forbidden-ip

Use the **dhcp server forbidden-ip** command to exclude IP addresses in a specified range to participate in the auto-allocation.

System view

dhcp server interface (System view)

Use the **dhcp server expired interface** command in system view to configure a valid period allowed for leasing IP addresses in the interface DHCP address pool of the interfaces in a specified range.

System view

dhcp server ip-pool

Use the **dhcp server ip-pool** command to create a DHCP address pool and access the DHCP address pool view.

System view

dhcp server nbns-list (Interface view)

Use the **dhcp server nbns-list** command in interface view to configure NetBIOS server addresses in the DHCP address pool of current interface.

Ethernet Interface (or Subinterface) view

dhcp server nbns-list interface (System view)

Use the **dhcp server nbns-list interface** command in system view to configure NetBIOS server addresses for the clients that get ip address from the DHCP address pool of the interfaces in a specified range.

System view

dhcp server netbios-type (Interface view)

Use the **dhcp server netbios-type** command in interface view to configure the NetBIOS node type of the DHCP clients of the current interface.

Ethernet Interface (or Subinterface) view

dhcp server netbios-type interface (System view)

Use the **dhcp server netbios-type interface** command in system view to configure a NetBIOS node type for the DHCP clients of the interfaces in a specified range.

System view

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`dhcp server option (Interface view)`

Use the **dhcp server option** command in interface view to configure a DHCP self-defined option for the DHCP address pool of the current interface.

Ethernet Interface (or Subinterface) view

`dhcp server option interface (System view)`

Use the **dhcp server option** command in system view to configure a DHCP self-defined option for the interfaces in a specified range.

System view

`dhcp server ping`

Use the **dhcp server ping** command to configure the maximum number of ping packets that the DHCP server is allowed to send and the longest time period that the DHCP server should wait for the response to each ping packet.

System view

`dhcp server relay information enable`

Use the **dhcp server relay information enable** command to enable the DHCP server to support option 82.

System view

`dhcp server static-bind`

Use the **dhcp server static-bind** command to configure a static address binding in the DHCP address pool of the current interface.

Ethernet Interface (or Subinterface) view

`dhcp server synchronize arp (Interface view)`

Use the **dhcp server synchronize arp** command to enable authorized ARP for a DHCP interface address pool.

Interface view

`dhcp server synchronize arp interface (System view)`

Use the **dhcp server synchronize arp interface** command to enable authorized ARP for specified DHCP interface address pools.

System view

`dhcp server voice-config (Interface view)`

Use the **dhcp server voice-config** command to enable the DHCP server to send option 184 and suboptions of 184 when it assigns addresses from the current interface address pool.

Interface view

`dhcp server voice-config interface (System view)`

Use the **dhcp server voice-config interface** command to enable the DHCP server to send option 184 and suboptions of 184 when it assigns addresses from the specified interface address pool.

System view

`dial-prefix`

Use the **dial-prefix** command to configure the prefix of the telephone number dialed by the voice entity.

Voice Entity view

`dial-program`

Use the **dial-program** command to enter the voice dial program view.

Voice view

`dialer bundle`

Use the **dialer bundle** command to configure a dialer bundle used by a dialer interface.

Dialer Interface view

`dialer bundle-member`

Use the **dialer bundle-member** command to configure a physical interface included in a dialer bundle in the Resource-Shared DCC application.

Physical Interface view

`dialer call-in`

Use the **dialer call-in** command to enable ISDN callback according to ISDN caller ID.

Physical or Dialer Interface view

`dialer callback-center`

Use the **dialer callback-center** command to enable the callback server function.

Physical or Dialer Interface view

`dialer circular-group`

Use the **dialer circular-group** command to add the physical interface to a dialer circular group specified here.

Physical Interface view

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`dialer disconnect`

Use the **`dialer disconnect`** command to clear the dial-up link or the session link on the specified interface at the PPPoE/PPPoA client.

Any view

`dialer enable-circular`

Use the **`dialer enable-circular`** command to enable Circular DCC.

Physical or Dialer Interface view

`dialer group`

Use the **`dialer-group`** command to configure access control on the packets transmitted on a DCC interface and to place the interface in an access control group.

Physical or Dialer Interface view

`dialer isdn-leased`

Use the **`dialer isdn-leased`** command to configure an ISDN B channel (can be either the channel on a BRI or PRI interface) to be the leased line.

Physical or Dialer Interface view

`dialer isdn-leased`

Use the **`dialer isdn-leased 128k`** command to configure 128K leased line connection.

Use the **`dialer isdn-leased`** ***`number`*** command to configure 64K leased line connection.

ISDN BRI Interface view

`dialer number`

Use the **`dialer number`** command to configure a dial number for placing a call to a single remote end.

Physical or Dialer Interface view

`dialer priority`

Use the **`dialer priority`** command to configure a priority for a physical interface in a dialer circular group in the Circular DCC configuration.

Physical Interface view

`dialer queue-length`

Use the **`dialer queue-length`** command to configure the number of packets which comply with the "permit" statement that can be buffered before a link is set up.

Physical or Dialer Interface view

`dialer route`

Use the **`dialer route`** command to allow a DCC interface to call the specified destination address (host or network address) or to receive calls from multiple remote ends.

Physical or Dialer Interface view

`dialer-rule`

Use the **`dialer-rule`** command to configure the conditions of the data packet that can trigger a DCC call.

System view

`dialer threshold`

Use the **`dialer threshold`** command to configure the traffic threshold of a link on the DCC interface so that another link can be enabled to call the same destination address when the ratio of traffic on all connected links on the DCC interface to the available bandwidth exceeds the preset percentage.

Dialer Interface view

`dialer timer autodial`

Use the **`dialer timer autodial`** command to configure the automatic dialing interval of DCC.

Physical or Dialer Interface view

`dialer timer compete`

Use the **`dialer timer compete`** command to configure an idle interval for an interface after call contention occurs on the interface.

Physical or Dialer Interface view

`dialer timer enable`

Use the **`dialer timer enable`** command to configure an interval for the next call attempt on an interface after the link is disconnected.

Physical or Dialer Interface view

`dialer timer idle`

Use the **`dialer timer idle`** command to configure the interval that a link is allowed to be idle (in other words, the interval when there is no packets which comply with the “permit” statements transmitted) after a call has been set up on the interface.

Physical or Dialer Interface view

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dialer timer wait-carrier

Use the **dialer timer wait-carrier** command to configure the timeout time of wait-carrier timer.

Physical or Dialer Interface view

dialer timer warmup

Use the **dialer timer warmup** command to set the length of the warmup timer on the router configured with the dial-up backup function. It is the time that the router must wait for bringing the dial-up backup function into effect after a reboot.

System view

dialer user

Use the **dialer user** command to configure remote user name for authenticating requests when calls are received.

Dialer Interface view

differential-delay

Use the **differential-delay** command to set the maximum differential delay for the member links in the IMA group.

IMA Group Interface view

dir

Use the **dir** command to query for a specified file.

FTP Client view

dir

Use the **dir** command to view the files in the specified directory as you would with the **ls** command.

SFTP Client view

dir

Use the **dir** command, you can view information about the specified file or directory in the router storage device.

User view

direct listen-port

Use the **direct listen-port X** command to set the listening port for vty.

Vty User Interface view

disconnect

Use the **disconnect** command to disconnect from the remote FTP server but remain in FTP client view.

FTP Client view

display l2tp session

Use the **display l2tp session** command to view the current L2TP sessions.

Any view

display l2tp tunnel

Use the **display l2tp tunnel** command to view information of the current L2TP tunnels.

Any view

display l2tp user

Use the **display l2tp user** command to view information about the current L2TP users.

Any view

display aaa unsent-h323-call-record

Use the **display aaa unsent-h323-call-record** command to view the detail record information about the calls failed to be sent.

Any view

display acl

Use the **display acl** command to view the rules of access control list.

Any view

display alarm urgent

Use the **display alarm urgent** command to view the stored alarms in a specified way.

Any view

display arp

Use the **display arp** command to view the ARP mapping table.

Any view

display arp timer aging

Use the **display arp timer aging** command to display the aging timer for dynamic ARP entries.

Any view

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`display aspf all`

Use the **display aspf all** command to view the information of all ASPF policies and sessions.

Any view

`display aspf interface`

Use the **display aspf interface** command to view the interface configuration of the inspection policy.

Any view

`display aspf policy`

Use the **display aspf policy** command to view the configuration of a specific inspection policy.

Any view

`display aspf session`

Use the **display aspf session** command to view the information of the ASPF sessions.

Any view

`display atm class`

Use the **display atm class** command to view the information about ATM-Class. By default, if no ATM-Class name is specified, the information of all ATM-Class is displayed.

Any view

`display atm interface`

Use the **display atm map-info** command to view the information about the upper layer protocol mapping table of ATM.

Any view

`display atm map-info`

Use the **display atm map-info** command to display upper layer protocol map information about a specified ATM interface.

Any view

`display atm map-info`

Use the **display atm map-info** command to view the information about the upper layer protocol mapping table of ATM.

Any view

`display atm pvc-group`

Use the **display atm pvc-group** command to view the information about PVC-Group.

Any view

`display atm pvc-info`

Use the **display atm pvc-info** command to view the information about PVC.

Any view

`display auto-config`

Use the **display auto-config** command to view the status of **auto-config**.

Any view

`display bgp l2vpn`

Use the **display bgp l2vpn all** command to view system operating information and all L2VPN information.

Any view

`display bgp group`

Use the **display bgp group** command to view the information of peer groups.

Any view

`display bgp multicast group`

Use the **display bgp multicast group** command to view the information about peer groups.

Any view

`display bgp multicast network`

Use the **display bgp multicast network** command to view the routing information that MBGP advertises.

Any view

`display bgp multicast peer`

Use the **display bgp multicast peer** command to view information about MBGP peers.

Any view

`display bgp multicast routing`

Use the **display bgp multicast routing** command to view the MBGP routing information whose IP address is specified in the BGP routing table.

Any view

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display bgp multicast routing as-path-acl

Use the **display bgp multicast routing as-path-acl** command to view in the BGP routing table the MBGP routes that match the specified AS path list.

Any view

display bgp multicast routing cidr

Use the **display bgp multicast routing cidr** command to view the routing information with non-natural network mask (that is, classless inter-domain routing, CIDR).

Any view

display bgp multicast routing community-list

Use the **display bgp multicast routing community-list** command to view the routing information that is permitted by the MBGP community list.

Any view

display bgp multicast routing community

Use the **display bgp multicast routing community** command to view the routing information that belongs to the specified MBGP community.

Any view

display bgp multicast routing different-origin-as

Use the **display bgp multicast routing different-origin-as** command to view AS routes with different origins.

Any view

display bgp multicast routing peer

Use the **display multicast routing peer** command to view the route received from or sent to the specified multicast neighbor.

Any view

display bgp multicast routing regular-expression

Use the **display bgp multicast routing regular-expression** command to view the routing information matching the specified AS regular expression.

Any view

display bgp multicast routing statistic

Use the **display bgp multicast routing statistic** command to view statistics of MBGP route information.

Any view

display bgp network

Use the **display bgp network** command to view the routing information that has been configured.

Any view

display bgp paths

Use the **display bgp paths** command to view the information about AS paths

Any view

display bgp peer

Use the **display bgp peer** command to view the information of peer.

Use the **display bgp multicast peer** command to view the information of MBGP peer.

Use the **display bgp vpnv4 peer** command to view the information of VPN peer.

Any view

display bgp routing

Use the **display bgp routing** command to view the BGP routing information in the BGP routing table.

Use the **display bgp multicast routing** command to view the MBGP routing information in the BGP routing table.

Use the **display bgp vpnv4 routing** command to view the VPN routing information in the BGP routing table.

Any view

display bgp routing as-path-acl

Use the **display bgp routing as-path-acl** command to view routes that match an as-path ACL.

Any view

display bgp routing cidr

Use the **display bgp routing cidr** command to view the routing information about the non-natural mask (namely the classless inter-domain routing, CIDR).

Any view

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`display bgp routing community`

Use the **display bgp routing community** command to view the routing information related to the specified BGP community number in the routing table.

Any view

`display bgp routing community-list`

Use the **display bgp routing community-list** command to view the routing information matching the specified BGP community list.

Any view

`display bgp routing dampened`

Use the **display bgp routing dampened** command to view BGP dampened routes.

Any view

`display bgp routing different-origin-as`

Use the **display bgp routing different-origin-as** command to view routes that have different source autonomous systems.

Any view

`display bgp routing flap-info`

Use the **display bgp routing flap-info** command to view BGP flap statistics. When <***network-address mask***> is <0.0.0.0 0.0.0.0>, this command will view the flap statistics of all BGP routes.

Any view

`display bgp routing label`

Use the **display bgp routing label** command to view routing information and label information in the BGP routing table.

Any view

`display bgp routing peer { advertised | received }`

Use the **display bgp routing peer** command to view the routing information the specified BGP peer advertised or received.

Any view

`display bgp routing peer dampened`

Use the **display bgp routing peer dampened** command to view the information about the dampened routes received from the specified peer.

Any view

`display bgp routing peer regular-expression`

Use the **display bgp routing peer regular-expression** command to view the route information received from the specified peer and matching the specified regular expression.

Any view

`display bgp routing regular-expression`

Use the **display bgp routing regular-expression** command to view the routing information matching the specified AS regular expression.

Any view

`display bgp routing statistic`

Use the **display bgp routing statistic** command to display statistics about BGP routes.

Any view

`display bgp vpnv4`

Use the **display bgp vpnv4** command to view VPNv4 information in BGP database.

Any view

`display bootp client`

Use the **display bootp client** command to display information about the BOOTP client, such as MAC address and IP address.

Any view

`display bridge address-table`

Use the **display bridge address-table** command to view the information of MAC address forwarding table.

Any view

`display bridge information`

Use the **display bridge information** command to view the information of one or all the enabled bridge sets in bridge module.

Any view

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`display bridge spanning tree`

Use the **display bridge spanning-tree** command to view STP state and statistics for traffic analysis and control.

Any view

`display bridge traffic`

Use the **display bridge traffic** command to view the traffic statistics on an interface.

Any view

`display brief interface`

Use the **display brief interface** command to display summary information about the specified or all interfaces.

Any view

`display ccc`

Use the **display ccc** command to view CCC connection information.

Any view

`display channel`

Use the **display channel** command to view the contents in an information channel.

Any view

`display clipboard`

Use the **display clipboard** command to view the contents of the clipboard.

Any view

`display clns`

Use the **display clns** command to display current CLNS information.

Any view

`display clns interface`

Use the **display clns interface** command to display CLNS related information about a specified interface.

Any view

`display clns routing-table`

Use the **display clns routing-table** command to display all active CLNS routes, including those in Level 0, Level 1, and Level 2 routing tables.

Any view

`display clns statistics`

Use the **display clns statistic** command to display statistics information about CLNS flow.

Any view

`display clock`

Use the **display clock** command to display the current system time and date.

Any view

`display command-alias`

Use the **display command-alias** command to view the current command alias settings.

Any view

`display configure-user`

Use the **display configure-user** command to view information about the user who is currently authorized to configure the equipment.

Any view

`display connection`

Use the **display connection** command to view the relevant information on the specified user connection or all the connections. The output can help you troubleshoot user connections.

Any view

`display connection-limit policy`

Use the **display connection-limit policy** command to display connection limit policy.

Any view

`display connection-limit statistics`

Use the **display connection-limit statistics** command to display the connection limit statistics.

Any view

`display controller cpos`

Use the **display controller cpos** command to view information about CPOS interfaces, such as state of the E1/T1 channels and alarms, and errors that occur to regeneration section, multiplex section, and higher-order path.

Any view

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`display controller cpos e1`

Use the **`display controller cpos e1`** command to view the physical layer configuration information of a specified E1 channel on the specified CPOS interface.

Any view

`display controller cpos t1`

Use the **`display controller cpos t1`** command to view the physical layer configuration information of a specified T1 channel on the specified CPOS interface.

Any view

`display controller e1`

Use the **`display controller e1`** command to display the information related to a CE1/PRI interface.

Any view

`display controller e3`

Use the **`display controller e3`** command to view state information on a CE3 interface.

Any view

`display controller t1`

Use the **`display controller t1`** command to display the information about the specified CT1/PRI interface.

Any view

`display controller t3`

Use the **`display controller t3`** command to view state about a CT3 interface.

Any view

`display cpu-usage`

Use the **`display cpu-usage`** command to view statistics about CPU usage.

Any view

`display cpu-usage history`

Use the **`display cpu-usage history`** command to view in graphics the CPU usage statistic history of the entire system, the specified task, or the interface board in the specified slot.

Any view

`display current-configuration`

Use the **`display current-configuration`** command to view the running configurations on the router.

Any view

`display debugging`

Use the **`display debugging`** command to view the enabled debugging switches.

Any view

`display debugging ospf`

Use the **`display debugging ospf`** command to view the state of the debug switches for each OSPF process.

Any view

`display detect group`

Use the **`display detect-group`** command to display configuration information about a specified detect group or all detect groups.

Any view

`display device`

Use the **`display device`** command to view information on the hardware configurations of the system, including in-position state of the RPU, NPU, interface cards, power module, and fan module, the operating state of the interface cards, power module, and fan module, as well as the offline state of RPU and NPU.

Any view

`display dhcp client`

Use the **`display dhcp client`** command to display the statistic information of the DHCP client. Executing the command attached without the keyword parameter verbose will display only the brief address allocation information on the DHCP client.

Any view

`display dhcp relay address`

Use the **`display dhcp relay address`** command to view the DHCP relay address configuration of an interface.

Any view

`display dhcprelay-security`

Use the **`display dhcprelay-security`** command to display the IP-to-MAC mappings of the clients obtaining IP addresses dynamically through the DHCP relay.

Any view

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`display dhcp relay statistics`

Use the **display dhcp relay statistics** command to view the statistics of DHCP relay in packet errors, DHCP packets received from clients, DHCP packets received from and sent to servers, and DHCP packets sent to clients (including unicast and broadcast packets).

Any view

`display dhcp server conflict`

Use the **display dhcp server conflict** command to view the DHCP address conflict statistics, including the information in conflicted IP address, conflict detection type, and conflict time.

Any view

`display dhcp server expired`

Use the **display dhcp server expired** command to view the expired address leases in a DHCP address pool. In certain conditions, the addresses of the expired leases will be allocated to other DHCP clients.

Any view

`display dhcp server free-ip`

Use the **display dhcp server free-ip** command to view the free address ranges in DHCP address pools, that is, information about IP addresses that have not been allocated yet.

Any view

`display dhcp server ip-in-use`

Use the **display dhcp server ip-in-use** command to view the address binding information of DHCP clients, such as the information in hardware address, IP address, and address lease expiration.

Any view

`display dhcp server statistics`

Use the **display dhcp server statistics** command to view the statistics on the DHCP server, including such information as number of DHCP address pools, automatically or manually bound address and expired addresses, number of unknown packets, number of DHCP request packets, and number of response packets.

Any view

`display dhcp server tree`

Use the **display dhcp server tree** command to view the tree-structure information of DHCP address pools, including the address pool at each node, option, address lease period, and DNS server information.

Any view

`display diagnostic-information`

Use the **display diagnostic-information** command to view the operating information about the active modules in the system.

Any view

`display dialer`

Use the **display dialer** command to view information on DCC interfaces.

Any view

`display dlsw bridge-entry`

Use the **display dlsw bridge-entry** command to view the bridge-set information.

Any view

`display dlsw circuits`

Use the **display dlsw circuits** command to view the DLSw virtual circuits.

Any view

`display dlsw ethernet-backup map`

Use the **display dlsw ethernet-backup map** command to display information about address translation after you configure the Ethernet switch support feature.

Any view

`display dlsw ethernet-backup neighbour`

Use the **display dlsw ethernet-backup neighbour** command to display all neighbors of the current router.

Any view

`display dlsw information`

Use the **display dlsw information** command to view the DLSw exchange capability information. The output information of the command facilitates the user to understand the status of the DLSw virtual circuit and perform fault diagnosis.

Any view

`display dlsw information`

Use the **display dlsw information** command to display DLSw capability exchange information. The output of this command can help you understand the status of DLSw virtual circuits.

Any view

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`display dlsw reachable-cache`

Use the **display dlsw reachable-cache** command to view the reachable-cache of DLSw.

Any view

`display dlsw remote`

Use the **display dlsw remote** command to view the information of the remote peers.

Any view

`display dlsw remote`

Use the **display dlsw remote** command to display information about the specified or all remote peers.

Any view

`display dns domain`

Use the **display dns domain** command to view the DNS domain names that are manually configured.

Any view

`display dns dynamic host`

Use the **display dns dynamic-host** command to view the current contents in the domain name cache of the DNS client.

Any view

`display dns server`

Use the **display dns server** command to view the DNS server addresses manually configured.

Any view

`display domain`

Use the **display domain** command to view the configuration of a specified ISP domain or display the summary information of all ISP domains.

Any view

`display dsl configuration`

Use the **display dsl configuration** command to view the actual ADSL configurations.

Any view

`display dsl configuration`

Use the **display dsl configuration** command to view the actual DSL configurations.

Any view

`display dsl status`

Use the **display dsl status** command to view the DSL state information.

Any view

`display dsl status`

Use the **display dsl status** command to view state about the specified DSL interface.

Any view

`display dsl version`

Use the **display dsl version** command to view DSL version and the available capabilities.

Any view

`display dsl version`

Use the **display dsl version** command to view the DSL version and the available functionality.

Any view

`display dvpn info`

Use the **display dvpn info** command to display the configuration and operating information about a specified DVPN.

Any view

`display dvpn ipsec-sa`

Use the **display dvpn ipsec-sa** command to display the specified IPSec SA information.

Any view

`display dvpn map`

Use the **display dvpn map** command to display information about maps in a DVPN domain, such as private IP address, public IP address, port number, DVPN connection state, DVPN connection type, and control ID.

Any view

`display dvpn online-user`

Use the **display dvpn online-user** command to display the information about online DVPN users.

Any view

`display dvpn session`

Use the **display dvpn session** command to display information about sessions the device owns.

Any view

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display encrypt-card fast-switch

Use the **display encrypt-card fast-switch** command to view the entries in the fast forwarding cache for the encryption cards.

Any view

display encrypt-card sa

Use the **display encrypt-card sa** command to view SA information.

Any view

display encrypt-card statistics

Use the **display encrypt-card statistics** command to view statistics on the specified or all encryption cards.

Any view

display encrypt-card syslog

Use the **display encrypt-card syslog** command to view the current system log on the encryption cards.

Any view

display environment

Use the **display environment** command to view the current values and the thresholds of the hardware system environment.

Any view

display esis

Use the **display esis** command to display current ES-IS protocol state, such as the configuration timer (CT) to send ISH packets, the holding time (HT) of the information ISH packets carry.

Any view

display esis interface

Use the **display esis interface** command to display ES-IS related information about a specified interface.

Any view

display esis peer

Use the **display esis peer** command to display information about the neighbors dynamically discovered by ES-IS protocol (including dynamic ES and IS neighbors).

Any view

display esis statistics

Use the **display esis statistic** command to display statistics information about ES-IS flow.

Any view

display fcm

Use the **display fcm** command to display the count of dial-up negotiation failures and the count of disconnections upon transaction timeouts for FCM module interfaces.

Any view

display fe1 serial

Use the **display fe1 serial** command to view the configuration and state about the specified or all E1-F interfaces.

Any view

display fib

Use the **display fib** command to view the summary of the Forwarding Information Base.

Any view

display fib acl

Use the **display fib acl** command to filter and display FIB information.

Any view

display fib begin

Use the **display fib** command to output the lines related to the line containing the character string text in the buffer according to the regular expression.

Use the **display fib | begin** text command to view the lines beginning from the line containing the character string text to the end line of the buffer.

Use the **display fib | include** text command to just view the lines containing the character string text.

Use the **display fib | exclude** text command to view the lines not containing the character string text.

Any view

display fib ip-prefix

Use the **display fib ip-prefix** command to filter and display FIB information by prefix-list name in certain format.

Any view

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`display fib longer`

Use the **`display fib longer`** command to display the FIB table entries matching the destination address. Different parameters selected leads to different matching methods.

Use the **`display fib`** command to display the FIB table entries whose destination address ranges from dest-addr1 dest-mask1 to dest-addr2 dest-mask2, including the FIB entries exactly matching dest-addr1 dest-mask1 and dest-addr2 dest-mask2.

Any view

`display fib statistics`

Use the **`display fib statistics`** command to display the total numbers of FIB table entries.

Any view

`display firewall ethernet-frame-filter`

Use the **`display firewall ethernet-frame-filter`** command to view the filtering statistics by ACL on the interface, namely, the detailed filtering information based on the ACL configured via the **`firewall ethernet-frame-filter`** { ***`acl-number`*** | ***`acl-name`*** } { inbound | outbound } command.

Any view

`display firewall-statistics`

Use the **`display firewall-statistics`** command to view the firewall statistics.

Any view

`display fr class-map`

Use the **`display fr class-map`** command to view information on frame relay class to interface map, including DLCIs of interfaces, subinterfaces on the interfaces and their DLCIs.

Any view

`display fr compress`

Use the **`display fr compress`** command to view the statistics information of the frame relay compression.

Any view

`display fr del`

Use the **`display fr del`** command to view the contents in the specified or all DE rule lists.

Any view

`display fr dlci-switch`

Use the **`display fr dlci-switch`** command to view the information of the configured FR switching to check if the frame relay switching of a user is correctly configured.

Any view

`display fr fragment-info`

Use the **`display fr fragment-info`** command to view the frame relay fragment information.

Any view

`display fr inarp-info`

Use the **`display fr inarp-info`** command to view statistics about frame relay inverse ARP (INARP) packets, including requests and replies.

Any view

`display fr interface`

Use the **`display fr interface`** command to view frame relay state on the specified or all interfaces.

Any view

`display fr lmi-info`

Use the **`display fr lmi-info`** command to view the statistics of LMI protocol frame.

Any view

`display fr map-info`

Use the **`display fr map-info`** command to display frame relay (FR) address map information.

Any view

`display fr map-info`

Use the **`display fr map-info`** command to view all FR address maps or the one for the specified interface.

Any view

`display fr pvc-group`

Use the **`display fr pvc-group`** command to view status, name, backup, protection, and other information about the specified PVC group, PVC groups on a specified interface, or all PVC groups if no argument is specified.

Any view

`display fr map-info pppofr`

Use the **`display fr map-info pppofr`** command to display information about the current PPPoFR map and its state.

Any view

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`display fr pvc-infoc`

Use the **`display fr pvc-info`** command to view the frame relay PVC table.

Any view

`display fr statistics`

Use the **`display fr statistics`** command to view the current Frame Relay statistics about receiving and sending packets.

Any view

`display fr switch-table`

Use the **`display mfr`** command to view configuration and status information of the frame relay route to confirm the correctness of the configuration.

Any view

`display fr vofr-info`

Use the **`display fr vofr-info`** command to view the VoFR information.

Any view

`display ft 1 serial`

Use the **`display ft1 serial`** command to view the configuration and state of the T1-F interface.

Any view

`display ftp-server`

Use the **`display ftp-server`** command to view the parameters of the current FTP server.

Any view

`display ftp-server source-ip`

Use the **`display ftp-server source-ip`** command to display the source IP address configured for the FTP server.

Any view

`display ftp source-ip`

Use the **`display ftp source-ip`** command to display the source IP address configured for the FTP client.

Any view

`display ftp-user`

Use the **`display ftp-user`** command to view the parameters of the current FTP users.

Any view

`display history-command`

Use the **`display history-command`** command to view the history commands.

Any view

`display hwatacs`

Use the **`display hwtacacs`** command to view configuration information of specified or all TACACS+ schemes.

Any view

`display hwping`

Use the **`display hwping`** command, you can view test result(s).

Any view

`display hwping statistics`

Use the **`display hwping statistics`** command to view test statistics.

Any view

`display icmp statistics`

Use the **`display icmp statistics`** command to view statistics about ICMP messages.

Any view

`display igmp group`

Use the **`display igmp group`** command to view the member information of the IGMP multicast group.

Any view

`display igmp interface`

Use the **`display igmp interface`** command to view the IGMP configuration and running information on an interface.

Any view

`display igmp local`

Use the **`display igmp local`** command to view the IGMP configuration and running information of the local interface which receives and sends multicast data.

Any view

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`display ike dpd`

Use the **display ike dpd** command to display the configuration of the specified or all DPD structures about reference count, interval-time, and time_out.

Any view

`display ike peer`

Use the **display ike peer** command to view the configuration about the specified or all IKE peers.

Any view

`display ike proposal`

Use the **display ike proposal** command to view the parameters configured for each IKE proposal.

Any view

`display ike sa`

Use the **display ike sa** command to view the current security tunnels established by IKE.

Any view

`display info-center`

Use the **display info-center** command to view all the information recorded in the info-center.

Any view

`display interface`

Use the **display interface** command to view the LAPB or X.25 interface information. After configuring PVC of X.25, users can use the command to obtain the status information on one interface.

Any view

`display interface`

Use the **display interface** command to view configuration information on the port.

Any view

`display interface`

Use the **display interface** command to view the current running state and other information about an interface.

Any view

`display interface atm`

Use the **display interface atm** command to display the configuration and state information about the specified or all ATM interfaces.

Any view

`display interface bri`

Use the **display interface bri** command to view status about the specified ISDN BRI interface.

Any view

`display interface encrypt`

Use the **display interface encrypt** command to view information about interfaces on the specified or all encryption cards.

Any view

`display interface {Ethernet Gigabithernet}`

Use the **display interface { ethernet | gigabitethernet }** command to view information about Ethernet interfaces, such as their configurations and current running state.

Any view

`display interface ima-group`

Use the **display interface ima-group** command to view the configuration and state information about the specified or all IMA group interfaces.

Any view

`display interface loopback`

Use the **display interface loopback** command to view state about the specified or all created loopback interfaces.

Any view

`display interface mfr`

Use the **display interface mfr** command to view information on one or all MFR interfaces, including configuration, state, and packet statistics.

Any view

`display interface mp-group`

Use the **display interface mp-group** command to view the state about the specified or all MP-group interfaces.

Any view

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`display interface null`

Use the **display interface null** command to view the state about the null interface.

Any view

`display interface pos`

Use the **display interface pos** command to view the configuration and state information of one or all POS interfaces.

Any view

`display interface tunnel`

Use the **display interface tunnel** command to view the working status of tunnel interface.

Any view

`display interface virtual-ethernet`

Use the **display interface virtual-ethernet** command to view the state about of the specified or all virtual Ethernet interfaces.

Any view

`display interface virtual-template`

Use the **display interface virtual-template** command to view the state about the specified or all virtual templates.

Any view

`display ip count`

Use the **display ip count** command to display IP packet statistics gathered by the IP Accounting.

Any view

`display ip count rule`

Use the **display ip count rule** command to display IP accounting rules.

Any view

`display ip fast-forwarding cache`

Use the **display ip fast-forwarding cache** command to view information on the unicast fast forwarding table.

Any view

`display ip host`

Use the **display ip host** command to display all the host names and their corresponding IP addresses.

Any view

`display ip interface`

Use the **display ip interface** command to view IP-related information about the specified or all interfaces.

Any view

`display ip interface brief`

Use the **display ip interface brief** command to view IP-related summary about the specified or all interfaces.

Any view

`display ip ip-prefix`

Use the **display ip ip-prefix** command to view the address prefix list.

Any view

`display ip multicast-fast-forwarding cache`

Use the **display ip multicast-fast-forwarding cache** command to display summary information about the fast forwarding table entries in the multicast fast forwarding cache.

Any view

`display ip multicast-policy`

Use the **display ip multicast-policy** command to view the multicast policy routing information.

Any view

`display ip netstream cache`

Use the **display ip netstream cache** command to view configuration and status information about the NetStream cache.

Any view

`display ip netstream export`

Use the **display ip netstream export** command to view statistics about exported NetStream UDP packets.

Any view

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`display ip policy`

Use the **`display ip policy`** command to view the routing policies of local and configured interface policy routings.

Any view

`display ip policy setup`

Use the **`display ip policy setup`** command to view the setting information of policy routings.

Any view

`display ip policy statistic`

Use the **`display ip policy statistic`** command to view the statistics of policy routings.

Any view

`display ip routing-table`

Use the **`display ip routing-table`** command to view the routing table summary.

Any view

`display ip routing-table acl`

Use the **`display ip routing-table acl`** command to view the route filtered through specified basic access control list (ACL).

Any view

`display ip routing-table ip_address`

Use the **`display ip routing-table`** ***`ip_address`*** command to view the routing information of the specified destination address.

Any view

`display ip routing-table ip_address1 ip_address2`

Use the **`display ip routing-table`** ***`ip_address1 ip_address2`*** command to view the routing information in the specified destination address range.

Any view

`display ip routing-table ip-prefix`

Use the **`display ip routing-table ip-prefix`** command to view the route that passed the filtering rule according to the specified ip prefix list.

Any view

`display ip routing-table protocol`

Use the **`display ip routing-table protocol`** command to view the routing information of specified protocol.

Any view

`display ip routing-table radix`

Use the **`display ip routing-table radix`** command to view the routing table information in a tree structure.

Any view

`display ip routing-table statistics`

Use the **`display ip routing-table statistics`** command to view the integrated routing information.

Any view

`display ip routing-table verbose`

Use the **`display ip routing-table verbose`** command to view the verbose routing table information.

Any view

`display ip routing-table vpn-instance`

Use the **`display ip routing-table vpn-instance`** command to view RIP information associated with vpn instance address family.

Any view

`display ip routing-table vpn-instance`

Use the **`display ip routing-table vpn-instance`** command to view the specified information in the IP routing table of vpn-instance.

Any view

`display ip socket`

Use the **`display ip socket`** command to display the information about all sockets in the current system.

Any view

`display ip statistics`

Use the **`display ip statistics`** command to view IP traffic statistics information. This command is used to display such statistics information as IP packet transmit/receive, packet assembly/disassembly, which is helpful to fault diagnosis.

Any view

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`display ip vpn-instance`

Use the **display ip vpn-instance** command to view the information related to vpn-instance, such as RD, description, and interfaces of the VPN instance.

Any view

`display ipsec policy`

Use the **display ipsec policy** command to view information about the ipsec policy.

Any view

`display ipsec policy-template`

Use the **display ipsec policy-template** command to view information about the ipsec policy template.

Any view

`display ipsec proposal`

Use the **display ipsec proposal** command to view information about the proposal.

Any view

`display ipsec sa`

Use the **display ipsec sa** command to view the relevant information about the SA.

Any view

`display ipsec statistics`

Use the **display ipsec statistics** command to view the IPSec packet statistics information, including the input and output security packet statistics, bytes, number of packets discarded and detailed description of discarded packets.

Any view

`display ipx interface`

Use the **display ipx interface** command to view IPX interface configuration information and interface parameters in communication devices.

Any view

`display ipx routing-table`

Use the **display ipx routing-table** command to view active IPX routing information.

Use the **display ipx routing-table verbose** command to view detailed IPX routing information, including active and inactive routes.

Use the **display ipx routing-table network** command to view active IPX routing information to specified destination network ID.

Use the **display ipx routing-table network verbose** command to view detailed IPX routing information to specified destination network ID, including active and inactive routes.

Use the **display ipx routing-table protocol** { rip | static | default | direct } command to view IPX routing information for specified destination type, including active and inactive routes.

Use the **display ipx routing-table protocol** { rip | static | default | direct } **verbose** command to view detailed IPX routing information for specified destination type, including active and inactive routes.

Any view

`display ipx routing-table statistics`

Use the **display ipx routing-table statistics** command to view IPX routing statistics.

Any view

`display ipx service-table`

Use the **display ipx service-table** command to view contents of IPX service information table. The output information of the command helps users with IPX SAP troubleshooting.

Any view

`display ipx statistics`

Use the **display ipx statistics** command to view statistics and type of IPX packet transmitted and received.

Any view

`display isdn active-channel`

Use the **display isdn active-channel** command to view the active call information on ISDN interfaces.

Any view

`display isdn call-info`

Use the **display isdn call-info** command to view the current states of ISDN interfaces.

Any view

`display isdn call-record`

Use the **display isdn call-record** command to view the information of ISDN call history.

Any view

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`display isdn parameters`

Use the **`display isdn parameters`** command to view the system parameters at layers 2 and 3 of the ISDN protocol, such as the durations of system timers and frame size.

Any view

`display isdn spid`

Use the **`display isdn spid`** command to view information on SPID on the BRI interface encapsulated with the NI protocol.

Any view

`display isis brief`

Use the **`display isis brief`** command to view the brief information of IS-IS.

Any view

`display isis interface`

Use the **`display isis interface`** command to view the information of the IS-IS enabled interface.

Any view

`display isis lsdb`

Use the **`display isis lsdb`** command to view the link state database of the IS-IS.

Any view

`display isis mesh-group`

Use the **`display isis mesh-group`** command to view the IS-IS mesh group.

Any view

`display isis peer`

Use the **`display isis peer`** command to view IS-IS peer information.

Any view

`display isis routing`

Use the **`display isis routing`** command to view IS-IS routing information

Any view

`display isis routing clns`

Use the **`display isis routing clns`** command to display CLNS routing information generated by IS-IS protocol.

Any view

`display isis spf-log`

Use the **`display isis spf-log`** command to view the SPF calculation log of the IS-IS.

Any view

`display llc2`

Use the **`display llc2`** command to view statistical information of LLC2.

Any view

`display loadsharing ip address`

Use the **`display loadsharing ip address`** command to view the statistics about the unbalanced load sharing based on interface bandwidth, including the number and ratio of the packets sent from the interfaces related to the equal-cost routes to a network address.

Any view

`display local-server statistics`

Use the **`display local-server statistics`** command to display statistics of the local RADIUS authentication server.

Any view

`display local-user`

Use the **`display local-user`** command to view the relevant information on the specified local user or all the local users. The output can help you troubleshoot faults related to local user.

Any view

`display log startup`

Use the **`display log startup`** command to display the state of the configuration restoration log switch.

User view

`display logbuffer`

Use the **`display logbuffer`** command to view the information recorded in the log buffer.

Any view

`display logbuffer summary`

Use the **`display logbuffer summary`** command to display a summary about the log buffer on the router.

Any view

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`display mac-address`

Use the **display mac-address** command to display information about MAC address entries of an interface or about all MAC address entries.

Any view

`display memory`

Use the **display memory** command to view information on system memory load.

Any view

`display memory`

Use the **display memory** command to view the memory setting and state information related to the routing capacity.

Any view

`display mfr`

Use the **display mfr** command to view configuration and statistics information of multilink frame relay bundle and bundle link. If no bundle or bundle link is specified, information of all bundles and bundle links will be displayed.

Any view

`display mirror`

Use the **display mirror** command to display information about port mirroring configuration, information including the monitored ports, the direction of monitored packets and monitoring port.

Any view

`display mobile-ip binding`

Use the **display mobile-ip binding** command to display information about the HA binding table. A binding table maintains mainly the corresponding relations between HA addresses and the care-of addresses of MNs. An HA updates the binding table based on MN registration events.

Any view

`display mobile-ip globals`

Use the **display mobile-ip globals** command to display global information about mobility agents.

Any view

`display mobile-ip interface`

Use the **display mobile-ip interface** command to display the MIP information of an interface. With the ***interface-number*** argument not specified, MIP information of all interfaces is displayed.

Any view

`display mobile-ip irdp`

Use the **display mobile-ip irdp** command to display ICMP router discovery protocol (IRDP) configuration information, including the agent advertisement lifetime, the maximum and minimum agent advertisement interval, and the agent advertisement transmission mode (broadcast or multicast).

Any view

`display mobile-ip mobile-router`

Use the **display mobile-ip mobile-router** command to display information about an MR, including basic information, discovered mobility agent information, registration information, and statistics.

Any view

`display mobile-ip node`

Use the **display mobile-ip node** command to display information about MNs. With no parameters specified, information about all MNs is displayed.

Any view

`display mobile-ip secure`

Use the **display mobile-ip secure** command to display mobility security association attributes. If not specify argument ***ip-address***, information about all mobility security association attributes of the specified mobility security associations is displayed.

Any view

`display mobile-ip statistics`

Use the **display mobile-ip statistics** command to display statistics collected by the mobility agents.

Any view

`display mobile-ip violation`

Use the **display mobile-ip violation** command to display MN security exception information logged by a mobility agent. With the ip-address argument not specified, all security exception information is displayed; up to 100 latest entries of information can be displayed.

Any view

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display mobile-ip visitor

Use the **display mobile-ip visitor** command to display information in the visitor table and pending table of an FA. An FA updates its visitor table and pending table based on registration events of MNs. If not specify the ***ip-address*** argument, all contents of the tables are displayed.

Any view

display mpls l2vc

Use the **display mpls l2vc** command to view the VC information in LDP.

Any view

display mpls l2vpn forwarding-info

Use the **display mpls l2vpn forwarding-info** command to view the L2VPN information of a specific interface.

Any view

display mpls l3vpn-lsp

Use the **display mpls l3vpn-lsp** command to view the information of vpn-instance of MPLS L3VPN LSPs.

Any view

display mpls cell-transfer interface

Use the **display mpls cell-transfer interface** command to view statistics for cells received and sent in a packet on an interface in transparent transmission mode.

Any view

display mpls interface

Use the **display mpls interface** command to view all MPLS-enabled interfaces.

Any view

display mpls ldp

Use the **display mpls ldp** command to view LDP and LSR information.

Any view

display mpls ldp buffer-info

Use the **display mpls ldp buffer-info** command to view the buffer information of LDP.

Any view

display mpls ldp interface

Use the **display mpls ldp interface** command to view the information of an LDP-enabled interface.

Any view

display mpls ldp lsp

Use the **display mpls ldp lsp** command to view relevant LSP information created via LDP.

Any view

display mpls ldp peer

Use the **display mpls ldp peer** command to view peer information.

Any view

display mpls ldp remote

Use the **display mpls ldp remote** command to view the configured remote peer information.

Any view

display mpls ldp session

Use the **display mpls ldp session** command to display the session between peer entities.

Any view

display mpls lsp

Use the **display mpls lsp** command to view LSP information.

Any view

display mpls static-lsp

Use the **display mpls static-lsp** command to view the information of all or one static LSP(s).

Any view

display mpls statistics

Use the **display mpls statistics** command to view statistics of all or one LSP(s) and LSP statistics on all or one interface(s).

Any view

display msdp brief

Use the **display msdp brief** command to view the state of MSDP peer.

Any view

display msdp peer-status

Use the **display msdp peer-status** command to view the detailed information of MSDP peer.

Any view

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display msdp sa-cache

Use the **display msdp sa-cache** command to view (S, G) state learnt from MSDP peer.

Any view

display msdp sa-count

Use the **display msdp sa-count** command to view the number of sources and groups in MSDP cache.

Any view

display multicast forwarding-table

Use the **display multicast forwarding-table** command to view the information of multicast forwarding table.

Any view

display multicast routing-table

Use the **display multicast routing-table** command to view the information of IP multicast routing table.

Any view

display multicast routing-table static

Use the **display multicast routing-table static** command to view the configuration information of static multicast route.

Any view

display multicast routing-table static

Use the **display multicast routing-table static** command to view the active multicast static routes.

Any view

display multicast routing-table static config

Use the **display multicast routing-table static config** command to view multicast static routes configured.

Any view

display multicast rpf-info

Use the **display multicast rpf-info** command to view the Reverse Path Forwarding (RPF) routing information for specified multicast source.

Any view

display nat

Use the **display nat** command to display the configuration of address translation.

Any view

display nat connection-limit

Use the **display nat connection-limit** command to display the NAT-related connection limit statistics.

Any view

display ntp-service sessions

Use the **display ntp-service sessions** command to view brief information about all sessions maintained by the NTP at the local device.

Any view

display ntp-service status

Use the **display ntp-service status** command to view status about the NTP service.

Any view

display ntp-service trace

Use the **display ntp-service trace** command to view the summary about each NTP time server from the local device back to the reference clock source.

Any view

display osm status slot

Use the **display osm status slot slotnum** command to view the information about the OSM board in the specified slot, including name of the board, board status, OS name, OS version and running time of OS.

Any view

display ospf abr-asbr

Use the **display ospf abr-asbr** command to view information on the routes to the Area Border Router (ABR) and Autonomous System Border Router (ASBR) of OSPF.

Any view

display ospf asbr-summary

Use the **display ospf asbr-summary** command to view summary about the redistributed routes of OSPF.

Any view

display ospf brief

Use the **display ospf brief** command to view the summary of OSPF.

Any view

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`display ospf cumulative`

Use the **display ospf cumulative** command to view the OSPF cumulative information.

Any view

`display ospf error`

Use the **display ospf error** command to view the statistics of error information which OSPF received.

Any view

`display ospf interface`

Use the **display ospf interface** command to view the OSPF interface information.

Any view

`display ospf lsdb`

Use the **display ospf lsdb** command to view the database information about OSPF connecting state.

Any view

`display ospf memory`

Use the **display ospf memory** command to view memory occupation status for LSAs.

Any view

`display ospf nexthop`

Use the **display ospf nexthop** command to view the information about the next-hop

Any view

`display ospf peer`

Use the **display ospf peer** command to view the information about the neighbors in OSPF areas.

Use the **display ospf peer brief** command to view the brief information of neighbors in OSPF, mainly the neighbor number at all states in every area.

Any view

`display ospf request-queue`

Use the **display ospf request-queue** command to view the information about the OSPF request-queue.

Any view

`display ospf retrans-queue`

Use the **display ospf retrans-queue** command to view the information about the OSPF retransmission queue.

Any view

`display ospf routing`

Use the **display ospf routing** command to view the information about OSPF routing table.

Any view

`display ospf sham-link`

Use the **display ospf sham-link** command to view the information of sham links.

Any view

`display ospf vlink`

Use the **display ospf vlink** command to view the information about OSPF virtual links.

Any view

`display pim bsr-info`

Use the **display pim bsr-info** command to view Bootstrap Router (BSR) information.

Any view

`display pim interface`

Use the **display pim interface** command to view the PIM interface information.

Any view

`display pim neighbor`

Use the **display pim neighbor** command to view the PIM neighbor information.

Any view

`display pim routing-table`

Use the **display pim routing-table** command to view the contents of the PIM multicast routing table.

Any view

`display pim rp-info`

Use the **display pim rp-info** command to view the corresponding RP information of multicast group, BSR and static RP information.

Any view

`display pki certificate`

Use the **display pki certificate** command to display and browse through the certificate.

Any view

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display pki crl

Use the **display pki crl** command to display and browse through the locally saved CRL.

Any view

display port

Use the **display port** command to check whether the current system has hybrid or trunk ports. If there is any, its port name is displayed.

Any view

display port-mapping

Use the **display port-mapping** command to view PAM information.

Any view

display portal

Use the **display portal** command to display the information about portal servers.

Any view

display portal update-resource

Use the **display portal update-resource** command to display information about the update resources configured by the user.

Any view

display pos-app

Use the **display pos-app** command to display brief information about POS applications.

Any view

display pos-interface

Use the **display pos-interface** command to display brief information about POS access ports.

Any view

display ppp compression iphc rtp

Use the **display ppp compression iphc rtp** command to view the statistic information of the RTP header compression.

Any view

display ppp compression iphc tcp

Use the **display ppp compression iphc tcp** command to view the statistic information of the TCP header compression.

Any view

display ppp compression stac-lzs

Use the **display ppp compression stac-lzs** command to view information about STAC-LZS compression.

Any view

display ppp mp

Use the **display ppp mp** command to view all interface information and statistics of MP.

Any view

display pppoe-server session

Use the **display pppoe-server session** command to view the status and statistics of PPPoE session.

Any view

display pppoe-server session

The command **display pppoe-client session** is used to display the status and statistics of PPPoE session.

Any view

display protocol-priority

Use the **display protocol-priority** command to view protocol priorities.

Any view

display qos car interface

Use the **display qos car interface** command to view parameter configuration and running statistics of CAR at each or all interfaces.

Any view

display qos carl

Use the **display qos carl** command to view a certain rule or all the rules of CARL.

Any view

display qos cbq interface

Use the **display qos cbq interface** command to view CBQ configuration information and operating status, the specified PVC on specified ATM interface or on all interfaces.

Any view

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`display qos cq interface`

Use the **`display qos cq interface`** command to view configuration and statistics of customized queues (CQ) at interfaces.

Any view

`display qos cql`

Use the **`display qos cql`** command to view contents of customized queue lists (CPL).

Any view

`display qos gts interface`

Use the **`display qos gts interface`** command to view GTS configuration and accounting information of certain interface or all interfaces.

Any view

`display qos lr interface`

Use the **`display qos lr interface`** command to view LR configuration and statistics of an interface.

Any view

`display qos policy`

Use the **`display qos policy`** command to display the configuration information of the specified class or all the classes and associated behaviors in the specified policy or all policies.

Any view

`display qos policy interface`

Use the **`display qos policy interface`** command to view information about CBQ application on the interface.

Any view

`display qos policy interface`

Use the **`display qos policy interface`** command to view the configuration and operating state about the policy on the specified interface, on the specified PVC on a particular ATM interface or on all interfaces and PVCs.

Any view

`display qos pq interface`

Use the **`display qos pq interface`** command to view the configuration and statistics of priority queues (PQ) at interfaces.

Any view

`display qos pql`

Use the **`display qos pql`** command to view contents of priority queue lists (PQL).

Any view

`display qos rtpq interface`

Use the **`display qos rtpq interface`** command to view information of the current IP RTP Priority queue, including the current RTP queue depth and number of RTP packets dropped, and display the RTP priority queue configuration and statistics on an interface or on all interfaces.

Any view

`display qos wfq interface`

Use the **`display qos wfq interface`** command to view WFQ (weighted fair queuing) configuration and statistics of an interface.

Any view

`display qos wred interface`

Use the **`display qos wred interface`** command to view WRED (weighed random early detection) configuration and statistics of an interface.

Any view

`display radius`

Use the **`display radius`** command to view the configuration information about the specified or all RADIUS schemes or to view statistics about RADIUS.

Any view

`display radius statistics`

Use the **`display radius statistics`** command to view the statistics information on RADIUS packets. The displayed packet information can help you troubleshoot RADIUS faults.

Any view

`display rip`

Use the **`display rip`** command to view the current RIP running state and its configuration information.

Any view

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`display rip interface`

Use the **`display rip interface`** command to display information about the specified RIP interface or all RIP interface.

Any view

`display rip routing`

Use the **`display rip routing`** command to display the RIP routing table, including normal routes and routes in garbage-collection status.

Any view

`display rip vpn-instance`

Use the **`display rip vpn-instance`** command to view the related configuration of VPN instance of RIP.

Any view

`display rmon alarm`

Use the **`display rmon alarm`** command to display the alarm table of remote monitoring (RMON) or the specified alarm entry.

Any view

`display rmon event`

Use the **`display rmon event`** command to display the event table of RMON or the specified event entry.

Any view

`display rmon eventlog`

Use the **`display rmon eventlog`** command to display the log table of RMON or the log entry for the specified event.

Any view

`display rmon history`

Use the **`display rmon history`** command to display the history control table of RMOM and information about the latest sampling, such as utilization, number of errors and total number of packets.

Any view

`display rmon prialarm`

Use the **`display rmon prialarm`** command to display information about the prialarm table of RMON or the specified prialarm entry.

Any view

`display rmon statistics`

Use the **`display rmon statistics`** command to display the RMON statistics about the specified or all interfaces.

Any view

`display route-policy`

Use the **`display route-policy`** command to view the configured route-policy

Any view

`display rsa local-key-pair public`

Use the **`display rsa local-key-pair public`** command to view the public key of the host key pair and server key pair on the server. If no key is generated, the system displays: RSA keys not found.

Any view

`display rsa peer-public-key`

Use the **`display rsa peer-public-key`** command to view the specified RSA public key. If no public key specified, all public keys are displayed.

Any view

`display saved-configuration`

Use the **`display saved-configuration`** command to view the configuration file loaded at this startup.

Any view

`display schedule reboot`

Use the **`display schedule reboot`** command to view settings related to the router's schedule reboot terminal service.

Any view

`display sftp source-ip`

Use the **`display sftp source-ip`** command to display the source IP address configured for the SFTP client.

Any view

`display snmp-agent`

Use the **`display snmp-agent`** command to view the engine ID of the local or remote SNMP entity.

Any view

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`display snmp-agent community`

Use the **display snmp-agent community** command to view information on the configured communities of SNMPv1 or SNMPv2.

Any view

`display snmp-agent group`

Use the **display snmp-agent group** command to view information about the specified or all user security model (USM) based groups, including group name, security model, storage type.

Any view

`display snmp-agent mib-view`

Use the **display snmp-agent mib-view** command to view the configured MIB views.

Any view

`display snmp-agent statistics`

Use the **display snmp-agent statistics** command to view the state and statistics about SNMP.

Any view

`display snmp-agent sys-info`

Use the **display snmp-agent sys-info** command to view the system information of this SNMP device.

Any view

`display snmp-agent trap-list`

Use the **display snmp-agent trap-list** command to display whether trap sending is enabled on each module.

Any view

`display snmp-agent usm-user`

Use the **display snmp-agent usm-user** command to view information about the specified or all SNMP users.

Any view

`display sot`

Use the **display sot** command to display the current state about SOT connections.

Any view

`display ssh server`

Use the **display ssh server** command to view information on SSH status or sessions.

Any view

`display ssh server-info`

Use the **display ssh server-info** command to view the associations of public key to SSH server maintained at the client end.

Any view

`display ssh-server source-ip`

Use the **display ssh-server source-ip** command to display the source IP address configured for the SSH server.

Any view

`display ssh user-information`

Use the **display ssh user-information** command to view information about current SSH users, including user name, corresponding key name and user authentication mode. If you specify the ***username*** parameter, then only the information about the specified user is displayed.

Any view

`display ssh2 source-ip`

Use the **display ssh2 source-ip** command to display the source IP address configured for the SSH client.

Any view

`display standby flow`

Use the **display standby flow** command to view statistics about the traffic on the main interfaces participating in backup load sharing.

Any view

`display standby state`

Use the **display standby state** command to view information about the main and standby interfaces.

Any view

`display startup`

Use the **display startup** command to view the configuration file used at this startup and the one used for next startup.

User view

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`display status interface`

Use the **display status interface** command to display the state of the specified interface.

Any view

`display status interface ima-group`

Use the **display status interface ima-group** command to view detailed information about the specified IMA group interface.

Any view

`display stop-accounting-buffer`

Use the **display stop-accounting-buffer** command to view information on the stop-accounting requests buffered in the router.

Any view

`display tcp statistics`

Use the **display tcp statistics** command to view TCP traffic statistic information.

Any view

`display tcp status`

Use the **display tcp status** command to monitor TCP connection any time.

Any view

`display tcp status`

Use the **display tcp status** command to view information about the current TCP connections on the router.

Any view

`display telnet-server source-ip`

Use the **display telnet-server source-ip** command to display the source IP address configured for the Telnet server.

Any view

`display tftp-server`

Use the **display tftp-server** command to view TFTP server state and attributes setting.

Any view

`display tftp source-ip`

Use the **display tftp source-ip** command to display the source IP address configured for the TFTP client.

Any view

`display this`

Use the **display this** command to view the current configurations in current view.

Any view

`display time-range`

Use the **display time-range** command to view the configuration and the status of time range. For the active time range at present, it displays "active" and for the inactive time range, it displays "inactive".

Any view

`display traffic behavior`

Use the **display traffic behavior** command to display the information of the traffic behavior configured on the router.

Any view

`display traffic classifier`

Use the **display traffic classifier** command to view the configuration information about class of the router.

Any view

`display trapbuffer`

Use the **display trapbuffer** command to view the information entries in the trap buffer.

Any view

`display udp-helper server`

Use the **display udp-helper server** command to display the information about the destination servers associated with the specified or all Ethernet interfaces.

Any view

`display udp statistics`

Use the **display udp statistics** command to view TCP traffic statistic information.

Any view

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`display user-interface`

Use the **`display user-interface`** command to view information about the specified or all user interfaces.

Any view

`display users`

Use the **`display users`** command to view the login information of the users on each user interface.

Any view

`display version`

Use the **`display version`** command to system version information.

Any view

`display virtual-access`

Use the **`display virtual-access`** command to view state information about the specified or all virtual access interfaces.

Any view

`display vlan`

Use the **`display vlan`** command to view information on VLANs.

Any view

`display vlan interface`

Use the **`display vlan interface`** command to view VLAN configuration information on a certain interface (only supporting sub-interface).

Any view

`display vlan max-packet-process`

Use the **`display vlan max-packet-process`** command to view the maximum number of processed packets configured on a certain VLAN per second.

Any view

`display vlan statistics vid`

Use the **`display vlan statistics vid`** command to view the packet statistics on a certain VLAN, e.g. the received packet number and the sent packet number.

Any view

`display vlan statistics vid`

Use the **`display vlan statistics vid`** command to view the packet statistics on a certain VLAN, e.g. the received packet number and the sent packet number.

Any view

`display voice aaa-client configuration`

Use the **`display voice aaa-client configuration`** command to view information about voice AAA.

Any view

`display voice call-history-record`

Use the **`display voice call-history-record`** command to view the information about call history records.

Any view

`display voice call-history-record`

Use the **`display voice call-history-record`** command to view call history.

Any view.

`display voice call-info`

Use the **`display voice call-info`** command to view the call information table, including: channel number of the call, reference counter of all voice modules, module ID in use, list of the voice entities that can be selected by the current call, and the voice entity used by the current call.

Any view

`display voice default`

Use the **`display voice default`** command to view the current default values and the system-fixed default values for voice and fax.

Any view

`display voice em call-statistic`

Use the **`display voice em call-statistic`** command to view the call statistics of the digital E&M subscriber-line.

Any view

`display voice em ccb`

Use the **`display voice em ccb`** command to view the information of call control block of the E&M subscriber-line.

Any view

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`display voice entity`

Use the **`display voice entity`** command to view the configuration information of voice entities of different types.

Any view

`display voice fax`

Use the **`display voice fax`** command to view the fax statistics in the fax module and the statistics in the fax transformation module as well.

Any view

`display voice gateway`

Use the **`display voice gateway`** command to view the gateway registration state information to GK Server.

Any view

`display voice ipp`

Use the **`display voice ipp`** command to view statistics about the IPP module.

Any view

`display voice number-substitute`

Use the **`display voice number-substitute`** command to view the configuration information of number-substitute lists. It can display the information of a certain list and all the lists.

Any view

`display voice r2 call-statistics`

Use the **`display voice r2 call-statistics`** command to view the R2 call statistics.

Any view

`display voice rcv ccb`

Use the **`display voice rcv ccb`** command to view the information related to the call control block in the RCV module.

Any view

`display voice rcv statistic`

Use the **`display voice rcv statistic`** command to view the statistics information of calling between the RCV module and the CC module, VAS module, and so on.

Any view

`display voice rcv statistic r2`

Use the **`display voice rcv statistic r2`** command to view the information of call statistics related to the R2 signaling in the RCV module.

Any view

`display voice sip call-statistics`

Use the **`display voice sip call-statistics`** command to view all statistic information about the SIP client.

Any view

`display voice sip register-state`

Use the **`display voice sip register-state`** command to view the registration state about the SIP user agents (UAs).

Any view

`display voice sip register status`

Use the **`display voice sip register status`** command to display the registration status information of all subscriber numbers under SIP UAs. The information includes subscriber number (Number), entity number (Entity), timeout time (Expires) and registration status (Status).

Any view

`display voice subscriber-line`

Use the **`display voice subscriber-line`** command to view the configuration information about the type, status, codec mode, input gain and output attenuation of the subscriber line.

Any view

`display voice subscriber-line`

Use the **`display voice subscriber-line`** command to view the subscriber line configuration.

Any view

`display voice vofr call`

Use the **`display voice vofr call`** command to view information of the current call.

Any view

`display voice vofr statistic`

Use the **`display voice vofr statistic`** command to view the call statistics between the VoFR module and VCC, VPP and other modules.

Any view

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`display voice voip data-statistic`

Use the **display voice voip data-statistic** command to view statistics information of voice data.

Any view

`display voice vpp`

Use the **display voice vpp** command to view all the statistic information in the VPP module.

Any view

`display voice vcc`

Use the **display voice vcc** command to view the information about the call channel status and call statistics.

Any view

`display voice voip`

Use the **display voice voip downqueue** ***e1t1vi-bno*** command to display the contents of the down interrupt queue between the E1/T1 voice card and the router main card.

Use the **display voice voip up-queue** ***e1t1vi-no*** command to display the contents of the up interrupt queue between the E1/T1 voice card and the router main card.

Use the **display voice voip phy-statistic** ***e1t1vi-bno*** command to display the statistics of the physical layer.

Any view

`display vrrp`

Use the **display vrrp** command to view current configuration and state information about VRRP.

Any view

`display web java-blocking`

Use the **display web java-blocking** command to display the information about Java blocking.

Any view

`display web url-filter host`

Use the **display web url-filter host** command to display information about URL address filtering.

Any view

`display web url-filter parameter`

Use the **display web url-filter parameter** command to display the filtering information about SQL attack.

Any view

`display x25 alias-policy`

Use the **display x25 alias-policy** command to view X.25 alias table.

Any view

`display x25 cug`

Use the **display x25 cug** command to view the CUG configuration on the router ports.

Any view

`display x25 hunt-group-info`

Use the **display x25 hunt-group-info** command to view the status information of X.25 hunt group.

Any view

`display x25 map`

Use the **display x25 map** command to view the X.25 address mapping table.

Any view

`display x25 map`

Use the **display x25 map** command to display X.25 address map information.

Any view

`display x25 pad`

Use the **display x25 pad** command to view X.25 PAD connection information.

Any view

`display x25 switch-table pvc`

Use the **display x25 switch-table pvc** command to view X.25 switching virtual circuit table.

Any view

`display x25 switch-table svc`

Use the **display x25 switch-table svc** command to display the X.25 switching routing table.

Any view

`display x25 vc`

Use the **display x25 vc** command to display information about X.25 virtual circuits.

Any view

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`display x25 x2t switch-table`

Use the **display x25 x2t switch-table** command to display the dynamic switching routing table and static routing table.

Any view

`display x25 xot`

Use the **display x25 xot** command to view XOT link information.

Any view

`dl-bits`

Use the **dl-bits** command to configure the bit value of all the signals of R2 line signaling.

R2 CAS view

`dlsw bridge-set`

Use the **dlsw bridge-set** command to configure the bridge group to connect DLSw. Use the **undo dlsw bridge-set** command to delete the bridge.

System view

`dlsw enable`

Use the **dlsw enable** command to enable DLSw performance.

System view

`dlsw ethernet-backup enable`

Use the **dlsw ethernet-backup enable** command to enable DLSw Ethernet redundancy.

Ethernet Interface view

`dlsw ethernet-backup map`

Use the **dlsw ethernet-backup map** command to enable the Ethernet switch support feature for DLSw Ethernet redundancy, that is, to map the MAC address of a remote SNA device to a local virtual MAC address.

Ethernet Interface view

`dlsw ethernet-backup timer`

Use the **dlsw ethernet-backup timer** command to configure the time for which the master DLSw router waits before sending a positive or negative response to the slave DLSw router upon receipt of a circuit establishing request.

Ethernet Interface view

`dlsw ethernet-frame-filter`

Use the **dlsw ethernet-frame-filter** command to apply an ACL in the transmitting and receiving directions of DLSW module towards bridge module so that it can transmit and receive only the Ethernet frames with permitted source MAC addresses.

System view

`dlsw filter acl`

Use the **dlsw filter acl** command to specify to filter packets from any peer.

System view

`dlsw local`

Use the **dlsw local** command to create the DLSw local peer.

System view

`dlsw max-transmission`

Use the **dlsw max-transmission** command to set the maximum number of the attempts to send an explorer frame.

System view

`dlsw multicast`

Use the **dlsw multicast** command to enable the multicast function of DLSw2.0.

System view

`dlsw reachable`

Use the **dlsw reachable** command to configure locally reachable MAC and SAP addresses.

System view

`dlsw reachable-cache`

Use the **dlsw reachable-cache** command to add the reachability information of the specified SNA device to the reachable-cache. You can specify this SNA device by specifying its MAC address and IP address of the router to which it is connected.

System view

`dlsw remote`

Use the **dlsw remote** command to create the DLSw remote peer.

System view

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`dlsw remote`

Use the **dlsw remote** command to create a remote DLSw peer and specifies its version and filtering rule.

System view

`dlsw reverse`

Use the **dlsw reverse** command to convert a MAC address from Ethernet order to token ring order or vice versa.

System view

`dlsw timer`

Use the **dlsw timer** command to configure the DLSw timer parameters.

System view

`dns domain`

Use the **dns domain** command to configure a DNS domain name.

System view

`dns-list`

Use the **dns-list** command to configure DNS server IP addresses in a global DHCP address pool.

DHCP Address Pool view

`dns-proxy enable`

Use the **dns-proxy enable** command to enable DNS proxy.

System view

`dns resolve`

Use the **dns resolve** command to enable DNS resolving.

System view

`dns server`

Use the **dns server** command to configure IP address of a DNS server.

System view

`domain`

Use the **domain** command to configure an ISP domain or enter the view of an existing ISP domain.

System view

`domain-authentication-mode`

Use the **domain-authentication-mode** command to configure IS-IS route area to authenticate the received Level-2 routing packets (LSP, CSNP, PSNP), according to the pre-defined mode and password.

IS-IS view

`domain-id`

Use the **domain-id** command to specify domain ID for a VPN instance.

OSPF Protocol view

`domain-name`

Use the **domain-name** command to configure the domain name that a global address pool of the DHCP server allocates to clients.

DHCP Address Pool view

`dot-match`

Use the **dot-match** command to configure dot match rules of the number-substitute rules.

Voice Number-Substitute view

`dpd`

Use the **dpd** command to reference a DPD structure.

IKE Peer view

`dscp media`

Use the **dscp media** command to set the DSCP value in the ToS field in the IP packets that carry the RTP stream of the voice entity.

Voice Entity view

`dsl link-check`

Use the **dsl link-check enable** command to enable retraining upon detection of a major fault after the DSL interface comes up.

ATM (G.SHDSL) Interface view

`dtmf`

Use the **dtmf** command to configure the way of sending and receiving R2 signaling.

R2 CAS view

`dtmf sensitivity-level`

Use the **dtmf sensitivity-level** command to set the detection sensitivity level of DTMF codes.

Voice Subscriber-Line view

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dtmf threshold

Use the **dtmf threshold** command to configure the sensitivity of DTMF digit detection.

Voice Subscriber-Line view

duplex

Use the **duplex** command to set the operating mode of the Ethernet interface.

Ethernet Interface view

duplex

Use the **duplex** command to configure the duplex mode of the Ethernet port.

Ethernet Port view

dvpn class

Use the **dvpn class** command to create and enter a dvpn-class view.

System view

dvpn client register-dumb

Use the **dvpn client register-dumb** command to set the time when a client turns to dumb state after it fails to register with a DVPN server for specified retries.

System view

dvpn client register-interval

Use the **dvpn client register-interval** command to set the register interval of a client.

System view

dvpn client register-retry

Use the **dvpn client register-retry** command to set the maximum retries for a client to register with a DVPN server continuously.

System view

dvpn dvpn-id

Use the **dvpn dvpn-id** command to specify the DVPN domain the tunnel interface belongs to. This command is valid when the tunnel interface is encapsulated as DVPN.

Tunnel Interface view

dvpn interface-type

Use the **dvpn interface-type** command to specify the type of a tunnel interface. A tunnel interface is of client type by default.

Tunnel Interface view

dvpn policy

Use the **dvpn policy** command to create and enter a DVPN policy view.

System view

dvpn policy

Use the **dvpn policy** command to apply a specified DVPN policy to a tunnel interface that is of server type.

Tunnel Interface view

dvpn register-type

Use the **dvpn register-type** command to configure the type of the additional information when a client registers with a DVPN server.

Tunnel Interface view

dvpn security

Use the **dvpn security acl** command to configure the ACL used for deciding which data stream needs IPSec encryption on the tunnel interface.

Tunnel Interface view

dvpn server

Use the **dvpn server** command to configure the DVPN class to be applied to a tunnel interface.

Tunnel Interface view

dvpn server authentication-client method

Use the **dvpn server authentication-client method** command to specify the default way a DVPN server authenticates clients.

System view

dvpn server map age-time

Use the **dvpn server map age-time** command to set the map age time of a DVPN server.

System view

dvpn server pre-shared-key

Use the **dvpn server pre-shared-key** command to set a pre-shared key for a DVPN server.

System view

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`dvpn service`

Use the **`dvpn service enable`** command to enable DVPN on a device.

System view

`e1 bert`

Use the **`e1 bert`** command to set test error bit for line Bit on CE3 interface.

CE3 interface view

`e1 channel-set`

Use the **`e1 channel-set`** command to bundle timeslots on an E1 line.

CE3 Interface view

`e1 channel-set`

Use the **`e1 channel-set`** command to bundle multiple timeslots on an E1 channel into one channel set.

CPOS Interface view

`e1 set clock`

Use the **`e1 set clock`** command to set clocking of an E1 line on the CE3 interface.

CE3 Interface view

`e1 set clock`

Use the **`e1 set clock`** command to set the clock mode of the E1 channel.

CPOS Interface view

`e1 set frame-format`

Use the **`e1 set frame-format`** command to configure the frame format on an E1 line.

CE3 Interface view

`e1 set frame-format`

Use the **`e1 set frame-format`** command to set the frame format of an E1 channel.

CPOS Interface view

`e1 set loopback`

Use the **`e1 set loopback`** command to set the loopback mode of the specified E1 line on the E3 interface.

CE3 Interface view

`e1 set loopback`

Use the **`e1 set loopback`** command to configure the loopback mode of the E1 channel.

CPOS Interface view

`e1 shutdown`

Use the **`e1 shutdown`** command to shut down an E1 line on the CE3 interface.

CE3 Interface view

`e1 shutdown`

Use the **`e1 shutdown`** command to shut down an E1 channel.

CPOS Interface view

`e1 unframed`

Use the **`e1 unframed`** command to set an E1 line on a CE3 interface to work in unframed mode (E1 mode).

CE3 Interface view

`e1 unframed`

Use the **`e1 unframed`** command to set an E1 channel on the CPOS interface to unframed mode or E1 mode.

CPOS Interface view

`early-media disable`

Use the **`early-media disable`** command to disable early media negotiation.

SIP Client view

`ebs`

Use the **`ebs`** command to set EBS of frame relay virtual circuit.

Frame Relay Class view

`echo-canceller`

Use the **`echo-canceller`** command to configure echo-cancellation parameters.

Voice Subscriber-Line view

`effect-time`

Use the **`effect-time`** command to configure the debounce time of line signaling.

R2 CAS view

`eliminate-pulse`

Use the **`eliminate-pulse`** command to eliminate the pulses with a width less than 3.472us, increasing signal reliability. This is useful when the line is seriously interfered.

Asynchronous Serial Interface view

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em-phy-parm

Use the **em-phy-parm** command to configure a wire scheme for the analog E&M subscriber-line.

Voice Subscriber-Line view

em-signal

Use the **em-signal** command to configure a voice subscriber-line start mode.

Voice Subscriber-Line view

enable

Use the **enable** command to enable current aggregation mode.

NetStream Aggregation view

enable deactivate

Use the **enable deactivate** command to enable the router to actively deactivate the BSV interface.

BSV Interface view

enable snmp trap undown

Use the **enable snmp trap updown** command to enable the interface to send UPDOWN traps.

Interface view

encapsulation

Use the **encapsulation gre** command to set the MR encapsulation mode to GRE.

MR view

encapsulation

Use the **encapsulation** command to specify ATM AAL5 encapsulation type for PVC.

PVC view

encapsulation-mode

Use the **encapsulation-mode** command to set the encapsulation mode that the security protocol applies to IP packets, which can be transport or tunnel.

IPSec Proposal view

encrypt-card backuped

Use the **encrypt-card backuped** command to enable backup function for the encryption card.

System view

encrypt-card fast-switch

Use the **encrypt-card fast-switch** command to enable the fast forwarding function of the encryption card.

System view

encryption-algorithm

Use the **encryption-algorithm** command to specify the encryption algorithm for an IKE proposal.

IKE Proposal view

entity

Use the **entity** command to configure a voice entity and enter its view (at the same time specify the working mode related to voice).

Voice Dial Program view

error-diffusion restraint config

Use the **error-diffusion restraint config** command to set the three parameters for error diffusion restraint function.

System view

error-diffusion restraint enable

Use the **error-diffusion restraint enable** command to enable error diffusion restraint.

System view

escape-key

Use the **escape-key** command to define an escape key or key combination for aborting tasks.

User Interface view

esis

Use the **esis** command to employ ES-IS protocol globally and enter ES-IS view.

System view

esis enable

Use the **esis enable** command to employ ES-IS protocol on the interface.

Interface view

esp authentication-algorithm

Use the **esp authentication-algorithm** command to set the authentication algorithm used by ESP.

IPSec Proposal view

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esp encryption-algorithm

Use the **esp encryption-algorithm** command to set the encryption algorithm adopted by ESP.

IPSec Proposal view

exchange-mode

Use the **exchange-mode** command to select an IKE negotiation mode.

IKE-Peer view

execute

Use the **execute** command to execute the specified batch file.

System view

exit

Use the **exit** command to terminate the connection to the remote SFTP server and exit to system view as you would with the **bye** and **quit** commands.

SFTP Client view

expired

Use the **expired** command to configure a valid period allowed for leasing IP addresses in a global DHCP address pool.

DHCP Address Pool view

fast-connect

Use the **fast-connect** command to enable fast connect.

VoIP Voice Entity view

fax baudrate

Use the **fax baudrate** command to configure the highest fax baudrate enabled by the gateway.

Voice Entity view

fax ecm

Use the **fax ecm** command to configure the forced adoption of ECM mode at the gateway, that is, to make the facsimiles at both ends support ECM mode.

Voice Entity view

fax level

Use the **fax level** command to configure the gateway carrier transmitting energy level.

Voice Entity view

fax local-train threshold

Use the **fax local-train** command to configure the percentage of fax local training threshold value.

Voice Entity view

fax nsf-on

Use the **fax nsf-on** common to configure the fax faculty transmission mode as Not Standard mode.

Voice Entity view

fax protocol

Use the **fax protocol** command to configure the protocol for intercommunication with other devices or enable the fax Passthrough mode, and configure the number of redundant packets sent via the T.38 fax protocol. The argument standard-t38 indicates the standard T38 negotiation mode specified by H323 or SIP adopted.

Voice Entity view

fax support-mode

Use the **fax support-mode** command to configure the fax interworking mode with other equipments.

Voice Entity view

fax train-mode

Use the **fax train-mode** command to configure the training mode used by the gateway.

Voice Entity view

fdl

Use the **fdl** command to set the behavior of the CT1/PRI interface on the FDL in ESF framing.

CT1/PRI Interface view

fe1 clock

Use the **fe1 clock** command to configure clocking on the E1-F interface.

E1-F Interface view

fe1 code

Use the **fe1 code** command to configure the line code format of the E1-F interface.

E1-F Interface view

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fe1 detect-ais (E1-F interface)

Use the **fe1 detect-ais** command to enable alarm indication signal (AIS) detect on the E1-F interface.

E1-F Interface view

fe1 frame-format

Use the **fe1 frame-format** command to configure the framing format of the E1-F interface.

E1-F Interface view

fe1 loopback

Use the **fe1 loopback** command to place the E1-F interface in local or remote loopback.

E1-F Interface view

fe1 timeslot-list

Use the **fe1 timeslot-list** command to bundle timeslots on the E1-F interface.

E1-F Interface view

fe1 unframed

Use the **fe1 unframed** command to configure an E1-F interface to work in unframed mode.

E1-F Interface view

feac (CT3 Interface)

Use the **feac** command to enable FEAC channel signal detection and sending on the CT3 interface.

CT3 Interface view

fifo queue-length

Use the **fifo queue-length** command to set the FIFO queue length of frame relay virtual circuit.

Frame Relay Class view

file prompt

Use the **file prompt** command to enable or disable the router to warn when an operation may result in data loss or corruption.

System view

filename

Use the **filename** command to configure the name of the file to be gotten from or put onto an FTP server.

HWPing Test Group view

filter-policy

Use the **filter-policy export** command to configure the filtering conditions of the routing information advertised by a certain type of routing protocols.

Routing Protocol view

filter-policy export

Use the **filter-policy export** command to filter the advertised routes and only the routes passing the filter can be advertised by BGP.

BGP Unicast view
BGP Multicast view
VPNv4 view
VPN Instance view

filter-policy export

Use the **filter-policy export** command to configure IS-IS to filter all redistributed routes or routes redistributed from a specified routing protocol.

IS-IS view

filter-policy export

Use the **filter-policy export** command to configure OSPF to filter the LSAs of redistributed routes for advertisement.

OSPF view

filter-policy export

Use the **filter-policy export** command to configure to filter the advertised routing information by RIP.

RIP view

filter-policy gateway

Use the **filter-policy gateway import** command to filter the routing information advertised by a specified router.

Use the **filter-policy import** command to configure the condition for filtering the routing information.

Routing Protocol view

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`filter-policy import`

Use the **`filter-policy gateway import`** command to filter the learned routing information advertised by the specified address.

Use the **`filter-policy import`** command to filter the received global routing information.

BGP Unicast view
BGP Multicast view
VPNv4 view
VPN Instance view

`filter-policy import`

Use the **`filter-policy import`** command to configure to filter the routes received by IS-IS.

IS-IS view

`filter-policy import`

Use the **`filter-policy import`** command to configure the OSPF rules of filtering the routing information received.

Use the **`filter-policy import`** command to filter the routes calculated by OSPF. Only the filtered routes can be added to the routing table. The filtering can be performed according to the next hop and destination of the route.

OSPF view

`filter-policy import`

Use the **`filter-policy gateway`** command to configure to filter the received routing information distributed from the specified address.

Use the **`filter-policy import`** command to configure the filtering to the received global routing information.

RIP view

`final-callednum`

Use the **`final-callednum`** command to enable or disable the terminate signal to be sent to the terminating point after the called number is sent.

R2 CAS view

`firewall aspf`

Use the **`firewall aspf`** command to apply ASPF policy in specified direction to an interface.

Interface view

`firewall default`

Use the **`firewall default`** command to configure the default filtering rule of the firewall, whether to be “permit” or “deny”.

System view

`firewall enable`

Use the **`firewall enable`** command to enable the firewall.

System view

`firewall ethernet-frame-filter`

Use the **`firewall ethernet-frame-filter`** command to apply a MAC-based ACL on the interface.

Interface view

`firewall fragments-inspect`

Use the **`firewall fragments-inspect`** command to enable fragment inspection switch.

System view

`firewall fragments-inspect {high | low}`

Use the **`firewall fragments-inspect { high | low }`** command to configure the high and low thresholds of records for fragment inspection.

System view

`firewall packet-filter`

Use the **`firewall packet-filter`** command to apply the access control list to the corresponding interface.

Interface view

`first-rule`

Use the **`first-rule`** command to configure the number-substitute rule that is first used in the current number-substitute list.

Voice Number-Substitute view

`fixdisk`

Use the **`fixdisk`** command to restore the space of a storage device when it becomes unavailable because of some abnormal operation.

User view

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flag

Use the **flag** command to set the overhead byte of SONET/SDH frames.

CPOS Interface view

flag

Use the **flag** command to set the SDH overhead byte.

POS Interface view

flow control

Use the **flow-control** command to enable flow control on the Ethernet interface, which is useful only when the peer end also supports flow control.

Ethernet Interface view

flow-control

Use the **flow-control** command to enable flow control on the Ethernet port to avoid packet drop when congestion occurs.

Ethernet Port view

flow-control

Use the **flow-control** command to configure flow control mode.

User Interface view

flow interval

Use the **flow-interval** command to configure traffic statistic interval.

System view

flow-interval

Use the **flow-interval** command to configure the interval for measuring the average rate of the interfaces.

System view

flow-interval qos

Use the **flow-interval qos** command to configure QoS policy traffic statistical interval and QoS policy rate updating interval.

System view

force-link

Use the **force-link** command to enable the GE interface to work in force mode.

GE Interface view

force-metering

Use the **force-metering** command to enable or disable the metering signal of R2 signaling.

R2 CAS view

format

Use the **format** command to format a storage device.

User view

fqdn

Use the **fqdn** command to specify the FQDN of an entity.

PKI Entity view

fr bump

Use the **fr bump** command to configure the standby PVC that will take over when a specified PVC goes down.

FR Pvc-Group view

fr-class

Use the **fr-class** command to associate a frame relay class with the current frame relay virtual circuit or frame relay interface.

Frame Relay DLCI view

fr class

Use the **fr class** command to create a frame relay class and enter frame relay class view.

System view

fr compression frf9

Use the **fr compression frf9** command to enable the FRF9 compression function.

Frame Relay Interface view

fr compression iphc

Use the **fr compression iphc** command to enable the IP header compression.

Frame Relay Interface view

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`fr congestion-threshold`

Use the **`fr congestion-threshold`** command to enable congestion management function of a frame relay interface.

Frame Relay Interface view
MFR Interface view

`fr de del`

Use the **`fr de del`** command to apply a DE rule list to the specified frame relay virtual circuit.

Frame Relay Interface (or Subinterface) view
MFR Interface view

`fr del inbound-interface`

Use the **`fr del inbound-interface`** command to configure an interface-based DE rule list. For the packet received from the specified interface, if it is forwarded from the router as a frame relay packet, its DE flag bit is set to 1 before being forwarded.

System view

`fr del protocol ip`

Use the **`fr del protocol ip`** command to configure an IP-based DE rule list. The DE flag bit of the frame relay packet encapsulated with an IP packet matching the specified rule will be flagged as 1.

System view

`fr dlci`

Use the **`fr dlci`** command to configure the virtual circuit for Frame Relay interface.

Interface view
PVC Group view

`fr dlci-switch`

Use the **`fr dlci-switch`** command to configure a static route for frame relay PVC switching.

Frame Relay Interface view
MFR Interface view

`fr inarp`

Use the **`fr inarp`** command to enable the inverse address resolution of Frame Relay.

Interface view

`fr interface-type`

Use the **`fr interface-type`** command to set the Frame Relay interface type.

Interface view

`fr ip-dscp`

Use the **`fr ip-dscp`** command to configure the PVC to carry packets of the specified priority levels when the DSCP identifier in the IP packet is used to identify the priority levels of packets.

FR Pvc-Group view

`fr ip-precedence`

Use the **`fr ip-precedence`** command to configure the PVC to carry packets of the specified priority levels when the Precedence identifier in the IP packet is used to identify the priority levels of packets.

FR Pvc-Group view

`fr iphc`

Use the **`fr iphc`** command to enable IP header compression function, including RTP/TCP header compression.

Frame Relay Interface view
MFR Interface view

`fr lmi n391dte`

Use the **`fr lmi n391dte`** command to configure N391 parameter at the DTE side.

Interface view

`fr lmi n392dce`

Use the **`fr lmi n392dce`** command to set N392 parameter at the DCE side.

Interface view

`fr lmi n392dte`

Use the **`fr lmi n392dte`** command to set N392 parameter at the DTE side.

Interface view

`fr lmi n393dce`

Use the **`fr lmi n393dce`** command to set the N393 parameter at the DCE side.

Interface view

`fr lmi n393dte`

Use the **`fr lmi n393dte`** command to set N393 parameter at the DTE side.

Interface view

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`fr lmi t392dce`

Use the **`fr lmi t392dce`** command to set T392 parameter at the DCE side.

Interface view

`fr lmi type`

Use the **`fr lmi type`** command to configure the Frame Relay LMI protocol type.

Interface view

`fr map bridge`

Use the **`fr map bridge`** command to add a bridge-set to frame relay map entry.

Interface view

`fr map clns`

Use the **`fr map clns`** command to add an FR mapping for OSI packets.

Interface view

`fr map ip`

Use the **`fr map ip`** command to add an IP address map entry for FR.

Interface view

`fr map ipx`

Use the **`fr map ipx`** command to add an IPX address map entry.

Interface view

`fr map ppp interface virtual-template`

Use the **`fr map ppp interface virtual-template`** command to map the FR DLCI (corresponds to an FR PVC) to a PPP link, so the PPPoFR link is established, and thus PPP packets can be sent/received on FR PVC.

Interface view

`fr match`

Use the **`fr match`** command to configure a PVC group to differentiate traffic by the Precedence or DSCP identifier in the TOS field of the IP header.

FR Pvc-Group view

`fr mpls-exp`

Use the **`fr mpls-exp`** command to configure the PVC to carry packets of the specified priority levels when the EXP identifier in the MPLS packet is used to identify the priority levels of packets.

FR Pvc-Group view

`fr pvc-group`

Use the **`fr pvc-group`** command to create a PVC group.

Interface view

`fr pvc-pq`

Use the **`fr pvc-pq`** command to set the queue type of a frame relay interface as PVC PQ (PVC Priority Queuing) and set queue length, i.e. the maximum number of packets that can be held by a queue, for each queue.

Frame Relay Interface view
MFR Interface view

`fr pvc-protect`

Use the **`fr pvc-protect`** command to configure the protection mode for a PVC in a PVC group.

FR Pvc-Group view

`fr switch`

Use the **`fr switch`** command to create a PVC used for frame relay switching and enter frame relay switching view.

System view

`fr switching`

Use the **`fr switching`** command to enable frame relay PVC switching.

System view

`fr traffic-policing`

Use the **`fr traffic-policing`** command to enable FRTP function.

Frame Relay Interface view
MFR Interface view

`fr traffic-shaping`

Use the **`fr traffic-shaping`** command to enable FRTS function.

Frame Relay Interface view
MFR Interface view

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`fragment`

Use the **fragment** command to enable the FRF.12-compliant fragmentation function on frame relay virtual circuit.

Frame Relay Class view

`frame-format`

Use the **frame-format** command to set the frame format of ATM OC-3c/STM-1 interface.

ATM Interface view

`frame-format`

Use the **frame-format** command to configure the ATM over E1/T1 framing format.

ATM E1/T1 Interface view

`frame-format`

Use the **frame-format** command to configure frame format of ATM E3/T3 interface.

ATM E3/T3 Interface view

`frame-format`

Use the **frame-format** command to set the frame type of the CPOS interface.

CPOS Interface view

`frame-format`

Use the **frame-format** command to set the frame format of the POS interface.

POS Interface view

`frame-format (CE1/PRI Interface)`

Use the **frame-format** command to set the frame format on the CE1 interface.

CE1/PRI Interface view

`frame-format (CT1/PRI Interface)`

Use the **frame-format** command to set the frame format on the CT1/PRI interface.

CT1/PRI Interface view

`frame-format (CT3 Interface)`

Use the **frame-format** command to configure the frame format used by the CT3 interface.

CT3 Interface view

`frame-length`

Use the **frame-length** command to configure the number of ATM cells in an IMA frame.

IMA Group Interface view

`framefill none`

Use the **framefill none** command to disable a serial interface to send interframe filling tags.

Synchronous Serial Interface view
Asynchronous Serial Interface view
AUX Interface view
AM Interface view

`free unused porttag`

Use the **free unused porttag** command to release the port tag resources used by removed interfaces for creating new interfaces.

System view

`free user-interface`

Use the **free user-interface** ***number*** command to disconnect the user corresponding to the user interface specified by its absolute index.

User view

`frequency`

Use the **frequency** command to configure an automatic test interval.

HWPing Test Group view

`ft1 alarm-threshold`

Use the **alarm-threshold** command to configure the alarm thresholds on the T1-F interface as needed.

T1-F Interface view

`ft1 bert (T1-F Interface)`

Use the **ft1 bert** command to start a BERT test on the T1-F interface.

T1-F Interface view

`ft1 cable`

Use the **ft1 cable** command to configure attenuation or transmission segment matching the T1-F interface.

T1-F Interface view

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ft1 clock

Use the **ft1 clock** command to configure clocking on the T1-F interface.

T1-F Interface view

ft1 code

Use the **ft1 code** command to configure line code format for a T1-F interface.

T1-F Interface view

ft1 data-coding

Use the **ft1 data-coding normal** command to disable user data inversion on the T1-F interface.

Use the **ft1 data-coding inverted** command to enable user data inversion on the CT1/PRI interface.

T1-F Interface view

ft1 fdl

Use the **ft1 fdl** command to set the behavior of the T1-F interface on the FDL in ESF framing.

T1-F Interface view

ft1 loopback

Use the **ft1 loopback** command to place the T1-F interface in local or remote loopback.

T1-F Interface view

ft1 sendloopcode

Use the **sendloopcode** command to send remote loopback control code.

T1-F Interface view

ft1 timeslot-list

Use the **ft1 timeslot-list** command to bundle timeslots on the T1-F interface.

T1-F Interface view

ft3 (CT3 Interface)

Use the **ft3** command to configure the CT3 interface to operate in FT3 mode and to set the DSU mode and subrate for FT3.

CT3 Interface view

ftp

Use the **ftp** command to set up control connection to the remote FTP server and enter FTP client view.

User view

ftphost source-interface

Use the **ftp *host* source-interface** command to specify the source interface that the FTP client uses when accessing the specified FTP server. This interface must be an exiting local interface.

User view

ftphost source-ip

Use the **ftp *host* source-ip** command to specify the source IP address that the FTP client uses when accessing the specified FTP server.

User view

ftp-operation

Use the **ftp-operation** command to configure the FTP operation done by the system.

HWPing Test Group view

ftp server enable

Use the **ftp server enable** command to enable the FTP server to allow login of FTP users.

System view

ftp-server source-interface

Use the **ftp-server source-interface** command to specify a source interface, which must be an existing local interface, for the FTP server.

System view

ftp-server source-ip

Use the **ftp-server source-ip** command to specify a source IP address for the packets sent by the FTP server. This IP address must be a local IP address.

System view

ftp source-interface

Use the **ftp source-interface** command to specify a source interface, which must be an existing local interface, for the FTP client.

System view

ftp source-ip

Use the **ftp source-ip** command to specify a source IP address for the packets sent by the FTP client. This IP address must be a local IP address.

System view

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`ftp timeout`

Use the **`ftp timeout`** command to set the idle-timeout timer.

System view

`ftp update`

Use the **`ftp update`** command to set the file update mode that the FTP server uses while receiving data.

System view

`fxo-monitoring`

Use the fxo-monitoring enable command to enable the on line monitoring function on all FXO interfaces of the device.

Voice view

`gateway-list`

Use the **`gateway-list`** command to configure IP addresses of the egress GW routers used by DHCP clients.

DHCP Address Pool view

`get`

Use the **`get`** command to FTP a file from a remote server and save it.

FTP Client view

`get`

Use the **`get`** command to download and save a file from a remote server.

SFTP Client view

`gk-2nd-id`

Use the **`gk-2nd-id`** command to configure the name and IP address of the backup GK Server corresponding to the gateway.

Use the **`gk-2nd-id`** command to configure the IP address, name and port of the backup GK Server.

Voice GK Client view

`gk-client`

Use the **`gk-client`** command to enter Voice GK client view, and configure the GK parameters for voice.

Voice view

`gk-id`

Use the **`gk-id`** command to configure the GK Server name and IP address corresponding to the gateway.

Use the command **`gk-id`** to configure such information as the IP address, name, and port of GK Server to facilitate the research for the right GK Server equipment by the GK Client according to this information, so as to implement the register task of gateway in the GK Server.

Voice GK Client view

`gk-security call`

Use the **`gk-security call enable`** command to enable security calls on the GK Client (router).

Voice GK Client view

`gk-security register-pwd`

Use the **`gk security register-pwd`** command to set the GK register password.

Use the **`gk-security register-pwd`** command to remove the GK register password.

Voice GK Client view

`gratuitous-arp-learning enable`

Use the **`gratuitous-arp-learning enable`** command to enable the address learning function of gratuitous ARP.

System view

`gratuitous-arp-sending enable`

Use the **`gratuitous-arp-sending enable`** command to configure the system to return ARP responses when receiving gratuitous ARP packets from other network segments. The system, however, does not learn the received ARP entries.

System view

`gre checksum`

Use the **`gre checksum`** command to configure the two ends of a tunnel to perform end-to-end check, verifying the correctness of packets and discard those that do not pass the verification.

Tunnel Interface view

`gre key`

Use the **`gre key`** command to set identification keyword of the tunnel interface, and by this feeble security mechanism avoid incorrectly identifying or receiving packets from undesired places.

Tunnel Interface view

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group

Use the **group** command to create a peer group.

BGP view

group-b

Use the **group-b** command to enable or disable Group-B stage signal to complete register exchange.

R2 CAS view

gts

Use the **gts** command to configure traffic shaping for a behavior.

Traffic Behavior view

gw-access-number

Use the **gw-access-number** command to configure the access service number or enter the view of the access service number.

Voice Dial Program view

gw-address

Use the **gw-address** command to configure the source IP address used by the voice gateway.

Voice GK Client view

gw-id

Use the **gw-id** command to configure the gateway alias.

Use the command **gw-id** to configure the gateway alias, which is used for the gateway to register and identify the voice gateway. Each gateway has only one alias, and the new alias will cover the old one.

Voice GK Client view

header

Use the **header** command to create a banner.

System view

help

Use the **help** command to get the help information for the specified or all SFTP client commands.

SFTP Client view

history-command max-size

Use the **history-command max-size** command to set the size of history command buffer.

User Interface view

history keep-time

Use the **history keep-time** command to configure the retaining time of the history record for a test group.

HWPing Test Group view

history-record

Use the **history-record enable** command to enable history record.

HWPing Test Group view

history-records

Use the **history-records** command to configure the number of test results that the system can retain.

HWPing Test Group view

home-agent ip-address

Use the **home-agent ip-address** command to configure the HA address of the MR.

MR view

hookoff-time

Use the **hookoff-time** command to configure the hangup timer. When this timer times out, the interface hangs up.

FXO Voice Subscriber-Line view

host-route

Use the **host-route** command to control the RIP to accept the host route.

RIP view

hotkey

Use the **hotkey** command to assign a hot key to a command line.

System view

http-operation

Use the **http-operation** command to configure an HTTP operation type.

HWPing Test Group view

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`hwatacacs change-password self`

Use the **hwtacacs change-password self** command to enable the TACACS online user to change the password.

User view

`hwatacacs nas-ip`

Use the **hwtacacs nas-ip** command to specify the source address of the hwtacacs packet sent from NAS.

System view

`hwatacacs scheme`

Use the **hwtacacs scheme** command to enter TACACS+ Server view. If the specified TACACS+ server scheme does not exist, you can create a new TACACS+ scheme.

System view

`hwping`

Use the **hwping** command to create an HWPing test group.

System view

`hwping-agent enable`

Use the **hwping-agent enable** command to enable the HWPing client function.

System view

`hwping-agent max-requests`

Use the **hwping-agent max-requests** command to set the allowed maximum number of concurrent tests.

System view

`hwping-server enable`

Use the **hwping-server enable** command to enable HWPing Server.

System view

`hwping-server tcpconnect`

Use the **hwping-server tcpconnect** command to create a TCP listening service.

System view

`hwping-server udpecho`

Use the **hwping-server udpecho** command to create a UDP listening service.

System view

`icmp redirect send`

Use the **icmp redirect send** command to enable the sending of ICMP Redirect messages.

System view

`id-type`

Use the **id-type** command to select the type of ID used in IKE negotiation.

IKE-Peer view

`idle-mark`

Use the **idle-mark** command to set the line idle-mark of the synchronous serial interface to “FF”.

Synchronous Serial Interface view

`idle-timeout`

Use the **idle-timeout** command to set the idle-timeout timer. When it expires, the user connection is disconnected.

User Interface view

`idlecode (CE1/PRI Interface)`

Use the **idlecode** command to set the line idle code on the CE1/PRI interface. Two types of line idle code are available: 0x7e and 0xff.

CE1/PRI Interface view

`idlecode (CT1/PRI Interface)`

Use the **idlecode** command to set the line idle code on the CT1/PRI interface. Two types of line idle code are available: 0x7e and 0xff.

CT1/PRI Interface view

`if-match`

Use the **if-match** command to define the match rule of a class.

Class view

`if-match acl`

Use the **if-match acl** command to define ACL match rule.

Class view

`if-match acl`

Use the **if-match acl** command to set conditions that multicast packets should meet in each policy node.

Route-Policy view

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`if-match acl`

Use the **`if-match acl`** command to set the match condition for IP address.

Route-Policy view

`if-match acl`

Use the **`if-match acl`** command to configure the IP address range to match the route-policy.

Routing Policy view

`if-match any`

Use the **`if-match any`** command to define the rule matching all packets.

Class view

`if-match as-path`

Use the **`if-match as-path`** command to filter BGP routing information.

Routing Policy view

`if-match atmclp`

Use the **`if-match atmclp`** command to create a cell loss priority (CLP) bit match rule defining that ATM cells with CLP bit set to 1 are matched.

Use the **`if-match not atmclp`** command to create a CLP bit match rule defining that ATM cells with CLP bit set to 0 are matched.

Class view

`if-match classifier`

Use the **`if-match classifier`** command to define class-map match rule.

Class view

`if-match community`

Use the **`if-match community`** command to configure the community list number to be matched in route-policy.

Routing Policy view

`if-match cost`

Use the **`if-match cost`** command to configure one of the matching rules of route-policy to match the cost of the routing information.

Routing Policy view

`if-match {destination-mac | source-mac}`

Use the **`if-match`** { destination-mac | source-mac } command to define match rule of destination or source MAC address.

Class view

`if-match dot1p-cos`

Use the **`if-match dot1p-cos`** command to define a COS field match rule for VLAN packets.

Class view

`if-match dscp`

Use the **`if-match dscp`** command to define an IP DSCP match rule.

Class view

`if-match fr-de`

Use the **`if-match fr-de`** command to define an FR DE matching rule.

Class view

`if-match inbound-interface`

Use the **`if-match inbound-interface`** command to define ingress interface match rule of a class.

Class view

`if-match interface`

Use the **`if-match interface`** command to match the route whose next hop is designated interface.

Routing Policy view

`if-match ip next-hop`

Use the **`if-match ip next-hop`** command to configure one of the match rules of route-policy on the next hop address of the routing information.

Routing Policy view

`if-match ip-precedence`

Use the **`if-match ip-precedence`** command to define IP precedence match rule.

Class view

`if-match ip-prefix`

Use the **`if-match ip-prefix`** command to configure one of the match rules of route-policy on the IP address range of the routing information.

Routing Policy view

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`if-match mpls-exp`

Use the **`if-match mpls-exp`** command to configure the matching rule for EXP domain of MPLS.

Class view

`if-match mpls-label`

Use the **`if-match mpls-label`** command to configure to match public network routes with MPLS labels only.

Route-Policy view

`if-match outbound-interface`

Use the **`if-match outbound-subinterface`** command to define an outbound subinterface matching rule for the class.

Class view

`if-match packet length`

Use the **`if-match packet-length`** command to set length match conditions of IP packets.

Route-Policy view

`if-match protocol`

Use the **`if-match protocol`** command to define protocol matching rules.

Class view

`if-match protocol rtp`

Use the **`if-match protocol rtp`** command to configure RTP matching rules.

Class view

`if-match rtp`

Use the **`if-match rtp`** command to define port match rule of RTP.

Class view

`if-match tag`

Use the **`if-match tag`** command to match the tag field of OSPF route information.

Routing Policy view

`igmp enable`

Use the **`igmp enable`** command to enable IGMP on an interface.

Interface view

`igmp group-limit`

Use the **`igmp group-limit`** command to limit the number of IGMP groups joined on the interface. If the number exceeds the limit, the router will not process the joined IGMP packet any more.

Interface view

`igmp group-policy`

Use the **`igmp group-policy`** command to set the filter of multicast groups on an interface to control the accessing to the IP multicast groups.

Interface view

`igmp host-join`

Use the **`igmp host-join`** command to enable an interface of a router to join a multicast group.

Interface view

`igmp lastmember-queryinterval`

Use the **`igmp lastmember-queryinterval`** command to set the interval at which IGMP querier sends the IGMP specified group query packet when it receives IGMP Leave packet from the host.

Interface view

`igmp max-response-time`

Use the **`igmp max-response-time`** command to configure the maximum response time contained in the IGMP query packet.

Interface view

`igmp proxy`

Use the **`igmp proxy`** command to specify an interface of a leaf network router as the IGMP proxy of another interface.

Interface view

`igmp robust-count`

Use the **`igmp robust-count`** command to set the times IGMP querier sends the IGMP specified group query packet when it receives IGMP Leave packet from the host.

Interface view

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igmp timer other-querier-present

Use the **igmp timer other-querier-present** command to configure the overtime value of presence of IGMP querier.

Interface view

igmp timer query

Use the **igmp timer query** command to configure the interval at which a router interface sends IGMP query messages.

Interface view

igmp version

Use the **igmp version** command to specify the version of IGMP that a router uses.

Interface view

ignore-lsp-checksum-error

Use the **ignore-lsp-checksum-error** command to configure the IS-IS to ignore the checksum error of LSP.

IS-IS view

ike dpd

Use the **ike dpd** command to create a DPD structure and enter its view.

System view

ike local-name

Use the **ike local-name** command to set the name of the local GW.

System view

ike next-payload check disabled

Use the **ike next-payload check disabled** command to disable the router to check the next-payload field in the last payload of the IKE negotiation packet during IPSec negotiation for compatibility with other vendors.

System view

ike peer (IPSec Policy view or IPSec Policy Template view)

Use the **ike peer** command to quote an IKE peer in an IPSec policy or IPSec policy template.

IPSec Policy view
IPSec Policy Template view

ike peer (System view)

Use the **ike peer** command to configure an IKE peer and access IKE-peer view.

System view

ike proposal

Use the **ike proposal** command to define an IKE proposal.

System view

ike sa keepalive-timer interval

Use the **ike sa keepalive-timer interval** command to configure the interval for sending Keepalive packet to the remote end through ISAKMP SA.

System view

ike sa keepalive-timer timeout

Use the **ike sa keepalive-timer timeout** command to configure a timeout for ISAKMP SA to wait for the Keepalive packet.

System view

ike sa nat-keepalive-timer interval

Use the **ike sa nat-keepalive-timer interval** command to configure the NAT keepalive interval for IKE peers.

System view

ima-clock

Use the **ima-clock** command to configure the clock mode of the IMA group.

IMA Group Interface view

ima ima-group

Use the **ima ima-group** command to add the ATM E1/T1 interface to the specified IMA group. If the specified IMA group does not exist, it is created first.

ATM E1/T1 Interface view

ima-test

Use the **ima-test** command to set a test pattern for testing the connectivity of the specified link to the rest of the IMA group.

IMA Group Interface view

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impedance

Use the **impedance** command to configure the current electric impedance on a voice subscriber-line.

FXO Voice Subscriber-Line view

import-route

Use the **import-route** command to redistribute routes from other protocols.

BGP view

import-route

Use the **import-route** command to import routing information from other protocols to BGP.

IPv4 Multicast Subaddress Family view

import-route

Use the **import-route** command to configure IS-IS to filter the redistributed routes.

IS-IS view

import-route

Use the **import-route** command to redistribute the information of another routing protocol.

OSPF view

import-route

Use the **import-route** command to redistribute the routes of other protocols into RIP.

RIP view

import-route isis

Use the **import-route isis level-2 into level-1** command to enable routing information in a Level-2 area to be redistributed to a Level-1 area.

IS-IS view

import-route ospf

Use the **import-route ospf** command to enable to import OSPF route.

BGP Unicast/Multicast view
MBGP VPN-Instance Address Family view

import-source

Use the **import-source** command to configure which (S, G) entries in the domain need to be advertised when a MSDP originates an SA message.

MSDP view

info-center channel

Use the **info-center channel** command to assign a name to the information channel specified by ***channel-number***.

System view

info-center console channel

Use the **info-center console channel** command to have the info-center output information to the console over the specified channel.

System view

info-center enable

Use the **info-center enable** command to enable the info-center.

System view

info-center logbuffer

Use the **info-center logbuffer** command to enable the log buffer and specify the channel for system information output as well as the size of the log buffer.

System view

info-center logfile

Use the **info-center logfile channel** command to have the info-center output system information to the log file.

System view

info-center loghost

Use the **info-center loghost** command to have the info-center output information to the log host.

System view

info-center loghost source

Use the **info-center loghost source** command to specify the source address in the packets destined to the log host.

System view

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`info-center monitor channel`

Use the **`info-center monitor channel`** command to have the info-center output information over the specified channel to the user terminal.

System view

`info-center snmp channel`

Use the **`info-center snmp channel`** command to set the information channel for SNMP.

System view

`info-center source`

Use the **`info-center source`** command to add records to an information channel.

System view

`info-center synchronous`

Use the **`info-center synchronous`** command to enable synchronous terminal output.

System view

`info-center timestamp`

Use the **`info-center timestamp`** command to set a time stamp format for the system information output to the information channels except for the log host.

System view

`info-center timestamp loghost`

Use the **`info-center timestamp loghost`** command to set a time stamp format for the system information output to the log host.

System view

`info-center trapbuffer`

Use the **`info-center trapbuffer`** command to enable the trap buffer, set its size and the channel that outputs information to it.

System view

`interface`

Use the **`interface`** command to create a P2MP or P2P subinterface.

System view

`interface`

Use the **`interface`** command to enter the specified interface view or create a logical interface or subinterface.

System view

`interface`

Use the **`interface`** command to enter Ethernet port view.

System view

`interface atm`

Use the **`interface atm`** command to enter the view of the specified ATM E1/T1 interface.

System view

`interface bridge-template`

Use the **`interface bridge-template`** command to create a bridge template interface, connecting the specified bridge set to the routing network.

System view

`interface dialer`

Use the **`interface dialer`** command to create a dialer circular group for the Circular DCC, or configure a dialer interface for the Resource-Shared DCC.

System view

`interface encrypt`

Use the **`interface encrypt`** command to enter encryption card interface view.

System view

`interface ethernet`

Use the **`interface ethernet`** command to create an Ethernet subinterface.

System view

`interface ima`

Use the **`interface ima`** command to enter the specified IMA group interface view.

System view

`interface logic-channel`

Use the **`interface logic-channel`** command to create a logical channel interface.

System view

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`interface loopback`

Use the **`interface loopback`** command to create a loopback interface or its view.

System view

`interface mfr`

Use the **`interface mfr`** command to create a multilink frame relay bundle interface or sub-interface and enter the corresponding interface view.

System view

`interface mp-group`

Use the **`interface mp-group`**wcommand to create an MP-group interface.

System view

`interface null`

Use the **`interface null`** command to enter null interface view.

System view

`interface serial [ p2p | p2mp ]`

Use the **`interface serial [ p2p | p2mp ]`** command to configure type of the specified FR subinterface and enter frame relay subinterface view.

System view

`interface tunnel`

Use the **`interface tunnel`** command to create a tunnel interface and enter the view of this tunnel interface.

System view

`interface virtual-ethernet`

Use the **`interface virtual-ethernet`** command to create a virtual Ethernet interface.

System view

`interface virtual-template`

Use the **`interface virtual-template`** command to create a virtual template or enter the existing virtual template view.

System view

`interval-time`

Use the **`interval-time`** command to configure the interval for triggering DPD query.

DPD Structure view

`invert receive-clock`

Use the **`invert receive-clock`** command to invert the receive-clock signal on the DTE-side synchronous serial interface.

Serial Interface View

`invert transmit-clock`

Use the **`invert transmit-clock`** command to enable the inverting of the transmit-clock signal of the synchronous serial interface at the DTE side.

Serial Interface view

`ip`

Use the **`ip`** command to specify the IP address of an entity.

PKI Entity view

`ip address`

Use the **`ip address`** command to configure the home address of an MR.

HA-MR view

`ip address`

Use the **`ip address`** command to set an IP address for an interface.

Interface view

`ip address`

Use the **`ip address`** command to configure the home address of an MR.

MR view

`ip address bootp-alloc`

Use the **`ip address bootp-alloc`** command to configure the Ethernet interface to obtain IP address using BOOTP.

Ethernet Interface view

`ip address dhcp-alloc`

Use the **`ip address dhcp-alloc`** command to enable DHCP client on the Ethernet or WAN interface for obtaining local IP address.

Interface view (Ethernet Interface or Subinterface)
Synchronous/Asynchronous Serial Interface (encapsulated with PPP, HDLC, or frame relay, E1 interface)

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`ip address ppp-negotiate`

Use the **ip address ppp-negotiate** command to allow IP address be assigned through negotiation at the interface.

Interface view

`ip address unnumbered`

Use the **ip address unnumbered** command to enable an interface to borrow the IP address of another interface.

Interface view

`ip as-path-acl`

Use the **ip as-path-acl** command to configure an AS path regular expression.

System view

`ip binding vpn-instance`

Use the **ip binding vpn-instance** command to bind an interface or subinterface to a vpn-instance.

Interface (or Subinterface) view

`ip community-list`

Use the **ip community-list** command to configure a BGP community list.

System view

`ip count enable`

Use the **ip count enable** command to enable IP accounting.

System view

`ip count exterior threshold`

Use the **ip count exterior-threshold** command to configure maximum number of entries in the exterior hash table, with each entry for an IP packet that does not match any IP accounting rule.

System view

`ip count firewall denied`

Use the **ip count firewall-denied** command to configure the IP Accounting to count the IP packets denied by the firewall on the current interface.

Interface view

`ip count inbound packets`

Use the **ip count inbound-packets** command to configure the IP Accounting to count inbound IP packets on the current interface.

Interface view

`ip count interior threshold`

Use the **ip count interior-threshold** command to configure maximum number of entries in the interior hash table, with each entry for an IP packet matching the IP accounting rule.

System view

`ip count outbound-packets`

Use the **ip count outbound-packets** command to configure the IP Accounting to count outbound IP packets on the current interface.

Interface view

`ip count rule`

Use the **ip count rule** command to configure IP accounting rules.

System view

`ip count timeout`

Use the **ip count timeout** command to configure the aging time of IP accounting entries.

System view

`ip df-check enable`

Use the **ip df-check enable** command to enable don't fragment bit (DF-bit) check for IP packets.

System view

`ip-dscp`

Use the **ip-dscp** command to configure the PVC to carry packets of the specified priority levels when the DSCP identifier in the IP packet is used to identify the priority levels of packets.

ATM Pvc-Group view

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`ip fast-forwarding`

Use the **`ip fast-forwarding`** command to enable unicast fast packet forwarding on both inbound and outbound interfaces.

Use the **`ip fast-forwarding`** inbound command to enable unicast fast packet forwarding on the inbound interface.

Use the **`ip fast-forwarding`** outbound command to enable unicast fast packet forwarding on the outbound interface.

Interface view

`ip forward-broadcast`

Use the **`ip forward-broadcast`** command to enable the current interface to forward broadcasts.

Interface view

`ip host`

Use the **`ip host`** command to configure the IP address corresponding to a host name.

System view

`ip ip-prefix`

Use the **`ip ip-prefix`** command to configure an address prefix list or one of its items.

System view

`ip local policy route-policy`

Use the **`ip local policy route-policy`** command to enable local policy routing.

System view

`ip multicast-fast-forwarding`

Use the **`ip multicast-fast-forwarding`** command to enable multicast fast forwarding on an interface.

Interface view

`ip multicast-policy route-policy`

Use the **`ip multicast-policy route-policy`** command to enable a multicast policy routing on an interface.

Interface view

`ip netstream aggregation`

Use the **`ip netstream aggregation`** command to enter NetStream aggregation view.

System view

`ip netstream export host`

Use the **`ip netstream export host`** command to set the destination IP address and UDP port number for NetStream UDP packets.

System view, NetStream Aggregation view

`ip netstream export source`

Use the **`ip netstream export source`** command to configure a source interface for NetStream UDP packets.

System view, NetStream Aggregation view

`ip netstream export version`

Use the **`ip netstream export version`** command to configure the type of AS numbers to be recorded in NetStream cache entries and the version of UDP packets.

System view

`ip netstream format no-direction`

Use the **`ip netstream format no-direction`** command to remove flow direction mark in the header of NetStream log packet.

System view

`ip netstream { inbound | outbound }`

Use the **`ip netstream { inbound | outbound }`** command to enable NetStream statistics in the inbound or outbound direction of the interface.

Interface view

`ip netstream max-entry`

Use the **`ip netstream max-entry`** command to set the NetStream cache size.

System view

`ip netstream timeout active`

Use the **`ip netstream timeout active`** command to set the active aging timer for NetStream cache entries.

System view

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`ip netstream timeout inactive`

Use the **ip netstream timeout inactive** command to set the inactive aging timer for NetStream cache entries.

System view

`ip option source-routing`

Use the **ip option source-routing** command to enable IP source routing, allowing the router to handle the packets with the IP source-route option.

System view

`ip policy route-policy`

Use the **ip policy route-policy** command to enable policy routing at an interface.

Interface view

`ip pool`

Use the **ip pool** command to configure a local address pool for assigning addresses to PPP users.

System view
ISP Domain view

`ip-precedence`

Use the **ip-precedence** command to set the precedence of IP packets carried over PVC.

ATM PVC-Group view

`ip relay address cycle`

Use the **ip relay address cycle** command to enable the DHCP relay to allocate servers using the load sharing approach, where the HASH algorithm applies allowing different clients to use different DHCP servers and the same client to use the same DHCP server so long as it is possible.

System view

`ip relay address (Interface view)`

Use the **ip relay address** command to specify the exact location of a DHCP server by configuring an IP relay address for it on the current interface.

Interface view

`ip relay address interface (System view)`

Use the **ip relay address interface** command to configure a relay address for the Ethernet interfaces in a specified range for the purpose of transparent forwarding.

System view

`ip route-static`

Use the **ip route-static** command to configure a static route.

Use the **ip route-static vpn-instance** command to configure a static route. In the application of multi-role host, you can configure a static route on a private network to specify the interface of another private network or public network as its outbound interface.

System view

`ip route-static detect-group`

Use the **ip route-static detect-group** command to configure a static route and reference a detect group.

System view

`ip route-static vpn-instance`

Use the **ip route-static vpn-instance** command to configure a static route, by specifying a private network interface as the outgoing-interface of this static route.

System view

`ip rpf-longest-match`

Use the **ip rpf-longest-match** command to configure the longest-match rule to be the multicast RPF route selecting policy.

System view

`ip rpf-route-static`

Use the **ip rpf-route-static** command to configure multicast static routes.

System view

`ip source-address-check`

Use the **ip source-address-check** command to enable source address check function for IP packets.

System view

`ip tcp vjcompress`

Use the **ip tcp vjcompress** command to enable a PPP interface to compress the VJ TCP header.

Interface view

`ip urpf`

Use the **ip urpf** command to enable URPF check on the interface.

Interface view

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`ip vpn-instance`

Use the **ip vpn-instance** command to create and configure a vpn-instance.

Use the **ip vpn-instance** command to create a vpn-instance named vpn-name.

System view
Routing Protocol (BGP and RIP) view

`ipsec card-proposal`

Use the **ipsec card-proposal** command to create an SA proposal for the encryption card and enter the corresponding view.

System view

`ipsec policy (Interface view)`

Use the **ipsec policy** (Interface view) command to apply an ipsec policy group with the name ***policy-name*** at the interface,.

Interface view

`ipsec policy (System view)`

Use the **ipsec policy** command to establish or modify an ipsec policy, and enter IPSec policy view.

System view

`ipsec policy-template`

Use the **ipsec policy-template** command to establish or modify an IPSec policy template, and enter IPSec policy template view.

System view

`ipsec proposal`

Use the **ipsec proposal** ***proposal-name*** command to establish or modify a proposal named ***proposal-name***, and enter IPSec proposal view.

System view

`ipsec sa global-duration`

Use the **ipsec sa global-duration** command to set a global SA duration.

System view

`ipv4-family`

Use the **ipv4-family** command to enter IPv4 extended address family view of BGP.

Use the **ipv4-family multicast** command to multicast. For relevant contents, refer to "MBGP Multicast Extended" chapter in module "Multicast" of this manual.

Use the **ipv4-family vpn-instance** command for BGP/MPLS VPN. For related description, refer to "MPLS VPN" chapter in module "MPLS" module of this manual.

BGP view
VPN Instance view

`ipv4-family`

Use the **ipv4-family multicast** command to enter MBGP multicast address family view.

Use the **ipv4-family vpn-instance** command to enter MBGP vpn-instance address family view.

Use the **ipv4-family vpnv4** command to enter MBGP VPNv4 address family view.

BGP view

`ipv4-family multicast`

Use the **ipv4-family multicast** command to enter the IPv4 multicast subaddress family view.

BGP view

`ipv4-family vpn-instance`

Use the **ipv4-family** command to enter MBGP address family view of RIP.

RIP view

`ipv4-family vpnv4`

Use the **ipv4-family vpnv4** command to enter VPNv4 address family view of BGP.

BGP view

`idle-mark`

Use the **idle-mark** command to configure the idle coding scheme of the synchronous serial port.

Synchronous Serial Interface view

`ipx enable`

Use the **ipx enable** command to activate IPX.

System view

`ipx encapsulation`

Use the **ipx encapsulation** command to set IPX frame encapsulation format on Ethernet interface.

Ethernet Interface view

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`ipx netbios-propagation`

Use the **ipx netbios-propagation** command to configure the router to forward type 20 broadcast packets on the current interface.

Interface view

`ipx network`

Use the **ipx network** command to configure a network ID for an interface.

Interface view

`ipx rip import-route`

Use the **ipx rip import-route static** command to import static routes into RIP. RIP adds them in their route updates.

System view

`ipx rip mtu`

Use the **ipx rip mtu** command to configure RIP updating packet size.

Interface view

`ipx rip multiplier`

Use the **ipx rip multiplier** command to configure the aging period of RIP routing information table items.

System view

`ipx rip timer update`

Use the **ipx rip timer update** command to configure RIP updating interval.

System view

`ipx route load-balance-path`

Use the **ipx route load-balance-path** command to configure the equivalent route number to the same destination address.

System view

`ipx route max-reserve-path`

Use the **ipx route max-reserve-path** command to configure the maximum dynamic route number to the same destination address.

System view

`ipx route-static`

Use the **ipx route-static** command to configure IPX static route.

System view

`ipx sap disable`

Use the **ipx sap disable** command to disable SAP on the current interface.

Interface view

`ipx sap gns-disable-reply`

Use the **ipx sap gns-disable-reply** command to disable IPX GNS reply on the current interface.

Interface view

`ipx sap gns-load-balance`

Use the **ipx sap gns-load-balance** command to configure the router to respond GNS request in Round-robin method, that is, all servers respond GNS request in turn.

System view

`ipx sap max-reserve-servers`

Use the **ipx sap max-reserve-servers** command to configure the length of the service information reserve queue.

System view

`ipx sap mtu`

Use the **ipx sap mtu** command to configure the maximum size of SAP updating packet.

Interface view

`ipx sap multiplier`

Use the **ipx sap multiplier** command to configure the aging period of SAP service information table items.

System view

`ipx sap timer update`

Use the **ipx sap timer update** command to configure SAP updating interval.

System view

`ipx service`

Use the **ipx service command** to add a static service information item to SIT.

System view

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`ipx split-horizon`

Use the **ipx split-horizon** command to enable split horizon on the current interface.

Interface view

`ipx tick`

Use the **ipx tick** command to configure the delay of interface sending IPX packets.

Interface view

`ipx update-change-only`

Use the **ipx update-change-only** command to enable trigger update on the current interface.

Interface view

`is-level`

Use the **is-level** command to configure the IS-IS level.

IS-IS view

`isdn bch-local-manage`

Use the **isdn bch-local-manage** command to enable local ISDN B channel management.

ISDN Interface view

`isdn bch-select-way`

Use the **isdn bch-select-way** command to set a B channel selection method.

ISDN Interface view

`isdn caller-number`

Use the **isdn caller-number** command to configure the range of the numbers that the router can receive.

ISDN Interface view

`isdn calling`

Use the **isdn calling** command to have the messages from a calling party to a called party carry the calling number.

ISDN Interface view

`isdn check-called-number`

Use the **isdn check-called-number** command to configure the called number or subaddress that the system should verify when receiving a digital call.

ISDN BRI Interface view
ISDN PRI Interface view

`isdn crlength`

Use the **isdn crlength** command to set length of the call reference used when a call is placed on an ISDN interface.

ISDN Interface view

`isdn ie passthrough`

Use the **isdn ie passthrough** command to enable transparent transmission of some or all related information elements and you can use this command to configure transparent transmission direction.

ISDN Interface view (not applicable on BRI Interface)

`isdn ignore connect-ack`

Use the **isdn ignore connect-ack** command to configure the router to switch the ISDN protocol state to ACTIVE to start the data and voice service communications after sending a CONNECT message without having to wait for a CONNECT ACK message.

ISDN Interface view

`isdn ignore hlc`

Use the **isdn ignore hlc** command to disable ISDN to carry the higher layer compatibility (HLC) information element in the SETUP messages sent when placing voice calls.

ISDN Interface view

`isdn ignore llc`

Use the **isdn ignore llc** command to disable ISDN to carry the Lower Layer Compatibility (LLC) information element in the SETUP messages sent when placing voice calls.

ISDN Interface view

`isdn ignore sending-complete`

Use the **isdn ignore sending-complete** command to configure the ISDN protocol to ignore the processing on the Sending Complete Information Element.

ISDN Interface view

`isdn L3-timer`

Use the **isdn L3-timer** command to configure the duration of an ISDN L3 timer.

ISDN Interface view

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`isdn number-property`

Use the **isdn number-property** command to set the type and code scheme of calling or called numbers in incoming or outgoing ISDN calls.

ISDN Interface view

`isdn overlap-sending`

Use the **isdn overlap-sending** command to set the system to send the called number information in the overlap mode on the ISDN interface.

ISDN Interface view

`isdn q921-permanent`

Use the **isdn q921-permanent** command to enable the Q.921 permanent link function.

ISDN Interface View

`isdn pri-slipwnd-size`

Use the **isdn pri-slipwnd-size** command to set the slide window size on a PRI interface.

Interface view

`isdn protocol-mode`

Use the **isdn protocol-mode** command to set the ISDN interface to operate on the user side or network side of ISDN protocol.

ISDN Interface view

`isdn protocol-type`

Use the **isdn protocol-type** command to set the ISDN protocol to be run on an ISDN interface.

ISDN Interface view

`isdn send-restart`

Use the **isdn send-restart** command to enable PRI interfaces to actively send ISDN RESTART messages to clear calls of the remote end before maintaining B channels.

System view

`isdn spid auto_trigger`

Use the **isdn spid auto_trigger** command to enable SPID auto-negotiation once on the BRI interface running the NI protocol.

ISDN BRI Interface view

`isdn spid nit`

Use the **isdn spid nit** command to set the SPID processing mode to NIT (Not Initial Terminal) on an NI-compliant BRI interface.

ISDN BRI Interface view

`isdn spid resend`

Use the **isdn spid resend** command to set the number of INFORMATION message retransmission attempts for SPID negotiation or initialization on an NI-compliant BRI interface.

ISDN BRI Interface view

`isdn spid service`

Use the **isdn spid service** command to configure the service types that must be supported in SPI negotiation on the BRI interface adopting NI protocol.

ISDN BRI Interface view

`isdn spid timer`

Use the **isdn spid timer** command to set the duration of the timer TSPID for an NI-compliant BRI interface to timer_length.

ISDN BRI Interface view

`isdn spid1`

Use the **isdn spid1** command to configure SPID information for the B1 channel on the NI-compliant BRI interface.

ISDN BRI Interface view

`isdn spid2`

Use the **isdn spid2** command to configure SPID information for the B1 channel on an NI-compliant BRI interface.

ISDN BRI Interface view

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`isdn statistics`

Use the **isdn statistics** command to have the system make statistics on the information received and transmitted at an ISDN interface.

Use the **isdn statistics start** command in the view of an interface to start making statistics on the messages received and transmitted at the interface.

Use the **isdn statistics display** command to view the statistic information.

Use the **isdn statistics continue** command to continue the effort in making statistics.

Use the **isdn statistics display flow** command to view the statistics in the form of flow.

Use the **isdn statistics stop** command to stop making statistics.

ISDN Interface view

`isdn two-tei`

Use the **isdn two-tei** command to have the router requests the connected switch for a new TEI value before calling for a B channel.

BRI Interface view

`isis`

Use the **isis** command to enable the corresponding IS-IS routing process and enter the IS-IS view.

System view

`isis authentication-mode`

Use the **isis authentication-mode** command to configure the IS-IS to authenticate the hello messages of the corresponding level, in the specified mode and with the specified password on the IS-IS interface.

Interface view

`isis circuit-level`

Use the **isis circuit-level** command to configure the link adjacency relationship.

Interface view

`isis cost`

Use the **isis cost** command to configure the link cost of this interface when performing SPF calculation.

Interface view

`isis dis-priority`

Use the **isis dis-priority** command to configure the priority of an interface for the corresponding level DIS election.

Interface view

`isis enable`

Use the **isis enable** command to configure this interface to activate the corresponding IS-IS routing process.

Interface view

`isis enable clns`

Use the **isis enable clns** command to enable CLNS-based IS-IS routing process for a specified interface.

Interface view

`isis mesh-group`

Use the **isis mesh-group** command to add an interface to a specified mesh group.

Interface view

`isis small-hello`

Use the **isis small-hello** command to disable IS-IS to stuff Hello packets to the size of interface MTU if their data sizes are smaller.

Interface view

`isis timer csnp`

Use the **isis timer csnp** command to configure the interval of sending CSNP packets on the broadcast network.

Interface view

`isis timer hello`

Use the **isis timer hello** command to configure the interval of sending hello message of corresponding level.

Interface view

`isis timer holding-multiplier`

Use the **isis timer holding-multiplier** command to configure the number of invalid Hello messages for the interface.

Interface view

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isis timer lsp

Use the **isis timer lsp** command to configure minimum IS-IS LSP interval on the interface.

Interface view

isis timer retransmit

Use the **isis timer retransmit** command to configure the LSP retransmission interval over the point-to-point link.

Interface view

itf (CE1/PRI Interface)

Use the **itf** command to set the type of and the number of interframe filling tags on the CE1/PRI interface. Two types of interframe filling tag are available: 0x7e and 0xff.

CE1/PRI Interface view

itf (CT1/PRI Interface)

Use the **itf** command to set the type of and the the number of interframe filling tags on the CT1/PRI interface. Two types of interframe filling tag are available: 0x7e and 0xff.

CT1/PRI Interface view

jitter-interval

Use the **jitter-interval** command to set a packet sending interval for a jitter test.

HWPing Test Group view

jitter-packetnum

Use the **jitter-packetnum** command to configure the number of packets to be sent in a jitter test.

HWPing Test Group view

keepalive

Use the **keepalive** command to enable the keepalive function of GRE and configure the interval for sending keepalive messages and the maximum number of sending attempts as well.

Tunnel Interface view

language-mode

Use the **language-mode** command to toggle the display language of the command line interface (CLI) between English and Chinese.

User view

lapb max-frame

Use the **lapb max-frame** command to configure LAPB parameter N1.

Interface view

lapd modulo

Use the **lapb modulo** command to specify the LAPB frame numbering view (also called modulo).

Interface view

lapb pollremote

Use the **lapb pollremote** command to configure the link protocol to teardown the link in use after receiving false packets.

Interface view

lapb retry

Use the **lapb retry** command to configure LAPB parameter N2.

Interface view

lapd timer

Use the **lapb timer** command to configure the LAPB timers T1, T2 and T3.

Interface view

lapb window-size

Use the **lapb window-size** command to configure the LAPB window parameter K.

Interface view

ldap-server

Use the **ldap-server ip** command to configure the LDAP server IP address and the port.

PKI Domain view

lcd

Use the **lcd** command to get the local working directory path of the FTP client.

FTP Client view

level

Use the **level** command to configure user priority level.

Local User view

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limit

Use the **limit** command to create rule under corresponding connection limit policy.

Connection Limit Policy view

line

Use the **line** command to associate the voice entity with a specified voice subscriber-line.

POTS Voice Entity view

line

Use the **line** command to configure the corresponding relationship between the POTS voice entity and the logic subscriber line.

POTS Voice Entity view

link-protocol

Use the **link-protocol** command to set the link layer protocol of the interface.

POS Interface view

link-protocol fr

Use the **link-protocol fr** command to encapsulate interface link layer protocol as Frame Relay.

Interface view

link-protocol fr mfr

Use the **link-protocol fr mfr** command to configure the current physical interface as an MFR bundle link and bundle it onto a specified MFR interface.

Interface view

link-protocol hdlc

Use the **link-protocol hdlc** command to configure the interface encapsulation as HDLC.

Interface view

link-protocol lapb

Use the **link-protocol lapb** command to specify the link layer protocol of the interface as LAPB.

Interface view

link-protocol ppp

Use the **link-protocol ppp** command to configure the link-layer protocol encapsulated on the interface as PPP.

Interface view

link-protocol sdlc

Use the **link-protocol sdlc** command to change the link layer encapsulation protocol of the synchronous serial interface into SDLC.

Synchronous Serial Interface view

link-protocol slip

Use the **link-protocol slip** command to set the link layer protocol of the interface as SLIP.

Interface view

link-protocol sot

Use the **link-protocol sot** command to encapsulate the serial interface with SOT.

Synchronous Serial Interface view

link-protocol x25

Use the **link-protocol x25** command to encapsulate X.25 protocol to the specified interface.

Interface view

llc2 max-ack

Use the **llc2 max-ack** command to configure the length of the advance response window before the LLC2 sending the acknowledgement frame.

Ethernet Interface view

llc2 max-send-queue

Use the **llc2 max-send-queue** command to configure the queue length sending the LLC2 packet.

Ethernet Interface view

llc2 max-transmission

Use the **llc2 max-transmission** command to configure the retransmission times of the LLC2.

Ethernet Interface view

llc2 modulo

Use the **llc2 modulo** command to configure the modulus of the LLC2.

Ethernet Interface view

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llc2 receive-window

Use the **llc2 receive-window** command to configure the maximum packets that can be sent before the LLC2 receives the acknowledgement frame.

Ethernet Interface view

llc2 timer ack

Use the **llc2 timer ack** command to configure the LLC2 local response time.

Ethernet Interface view

llc2 timer ack-delay

Use the **llc2 timer ack-delay** command to configure the local acknowledgement delay time when the LLC2 receives information frames.

Ethernet Interface view

llc2 timer busy

Use the **llc2 timer busy** command to configure the LLC2 BUSY time.

Ethernet Interface view

llc2 timer poll

Use the **llc2 timer poll** command to configure the P/F waiting time of the LLC2.

Ethernet Interface view

llc2 timer reject

Use the **llc2 timer reject** command to configure the REJ time of the LLC2.

Ethernet Interface view

loadbandwidth

Use the **loadbandwidth** command to allocate load bandwidth to the interface.

Interface (Excluding Logical Interfaces) view

local

Use the **local** command to configure the subnet type in IKE negotiation.

IKE-Peer view

local-address

Use the **local-address** command to configure the IP address of the local GW in IKE negotiation.

IKE-Peer view

local-server

lUse the **local-server** command to configure a local RADIUS authentication server.

System view

local-user

lUse the **local-user** command to configure the user name and password of a client.

Dvpn-Class view

local user

Use the **local-user** command to add a local user and enter the local user view.

System view

local-user password-display-mode

Use the **local-user password-display-mode** command to configure the password display mode of all the local users.

System view

locality

Use the **locality** command to name the geographical locality of an entity, by a city for example.

PKI Entity view

lock

Use the **lock** command to lock the active user interface and prevent unauthorized users from accessing it. The active user interface can be console, AUX, or VTY.

User view

log enable

Use the **log enable** command to enable ASPF session logging function.

ASPF Policy view

log-peer-change

Use the **log-peer-change** command to turn on the BGP adjacency changes output switch.

BGP view

log-peer-change

Use the **log-peer-change** command to configure to log the IS-IS adjacency changes.

IS-IS view

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log-peer-change

Use the **log-peer-change** command to turn on the OSPF adjacency changes output switch for the current OSPF process.

OSPF view

log startup

Use the **log startup** command to turn on the configuration restoration log switch.

User view

loopback

Use the **loopback** command to enable the loopback function on an ATM OC-3c/STM-1 interface.

ATM Interface view

loopback

Use the **loopback** command to configure the loopback mode on the ATM E1/T1 interface.

ATM E1/T1 Interface views

loopback

Use the **loopback** command to enable loopback function of interface.

ATM E3/T3 Interface view

loopback

Use the **loopback** command to enable a serial interface to perform loopback.

AM Interface view
AUX Interface view
Serial Interface view

loopback

Use the **loopback** command to set the loopback mode on the interface.

CE1/PRI interface view

loopback

Use the **loopback** command to configure the loopback function of the CPOS interface.

CPOS Interface view

loopback

Use the **loopback** command to enable loopback on the Ethernet port for test purpose.

Ethernet Port view

loopback

Use the **loopback** command to configure the loopback function of the POS interface.

POS Interface view

loopback (CE1/PRI Interface)

Use the **loopback** command to enable a CE1/PRI interface to perform loopback.

CE1/PRI Interface view

loopback (CE3 Interface)

Use the **loopback** command to configure the loopback mode of a CE3 interface.

CE3 Interface view

loopback (CT1/PRI Interface)

Use the **loopback** command to enable a CT1/PRI interface to perform local, remote, or external payload loopback.

CT1/PRI Interface view

loopback (CT3 Interface)

Use the **loopback** command to configure the loopback mode of the CT3 interface.

CT3 Interface view

loopback (Ethernet/GE Interface)

Use the **loopback** command to enable local loopback on the Ethernet interface.

Ethernet Interface view

loopback (ISDN BRI Interface)

Use the **loopback** command to place the B1, B2, or both channels on the BRI interface in a remote looback. This can send data from a line back to the line.

ISDN BRI Interface view

looptest

Use the **looptest** command to test whether an interface or line is in a loop.

Any view

lr

Use the **lr** command to configure LR.

Traffic Behavior view

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`lr percent`	1Use the **`lr percent`** command to configure LR. *Traffic Behavior view*
`ls`	Use the **`ls`** command to query for a specified file/directory. *FTP Client view*
`ls`	Use the **`ls`** command to view the files in the specified directory as you would with the **`dir`** command. *SFTP Client view*
`lsp-trigger`	Use the **`lsp-trigger`** command to configure topology-triggered LSP creation policy. *MPLS view*
`mac-address`	Use the **`mac-address`** command to configure Mac address of virtual Ethernet interface. *Virtual Ethernet Interface view*
`mac-address timer aging`	Use the **`mac-address timer aging`** command to set the aging timer for the MAC address table on the port. *Ethernet Port view*
`mandatory-chap`	Use the **`mandatory-chap`** command to force LNS to perform CHAP authentication again with the client. *L2TP Group view*
`mandatory-lcp`	Use the **`mandatory-lcp`** command to allow LNS and client to renegotiate Link Control Protocol (LCP) between them. *L2TP Group view*
`map bridge`	Use the **`map bridge`** command to establish the IPoEoA mapping or PPPoEoA mapping on the PVC. *PVC view*
`map bridge-group`	Use the **`map bridge-group broadcast`** command to enable the PVC to transmit and receive BPDUs. *PVC view*
`map clns`	Use the **`map clns`** command to create a CLNSOA mapping for a PVC. *ATM PVC view*
`map ip`	Use the **`map ip`** command to create IPoA mapping for PVC. *PVC view*
`map ppp`	Use the **`map ppp`** command to create a PPPoA map on the PVC. *PVC view*
`map routed-bridge`	Use the **`map routed-bridge`** command to configure routed bridge encapsulation on the PVC. *ATM PVC view*
`match`	Use the **`match`** command to configure a PVC group to differentiate traffic by the Precedence or DSCP identifier in the TOS field of the IP header. *ATM Pvc-Group view*
`match-template`	Use the **`match-template`** command to configure the match template for a voice entity. *Voice Entity view*
`max-call (in Voice Dial Program View)`	Use the **`max-call`** command to configure max-call sets (128 sets at most). *Voice Dial Program view*
`max-call (in Voice Entity View)`	Use the **`max-call`** command to bind a voice entity to the max-call set specified by ***`set-number`***. *Voice Entity view*

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`max-packet-process`

Use the **max-packet-process** command to set the maximum number of processed packets per second on a certain VLAN.

System view

`md5-compatible`

Use the **md5-compatible** command to configure ISIS to use the 3Com-compatible MD5 algorithm. You need to use this command when MD5 authentication on ISIS is required between your router and a 3Com device.

ISIS view

`mdl (CT3 Interface)`

Use the **mdl** command to configure MDL message detection/sending on the CT3 interface.

CT3 Interface view

`memory`

Use the **memory** command to configure the safety value and lower limit of the router idle memory.

System view

`memory auto-establish disable`

Use the **memory auto-establish disable** command to disable the function of restoring the connections of all the routing protocols (even if the idle memory reduces to a safety value).

Use the **memory auto-establish disable** command to disable the above function.

System view

`memory auto-establish enable`

Use the **memory auto-establish enable** command to resume connections of all the routing protocols when the idle memory of the router recovers to a safety value.

Use the **memory auto-establish disable** command to disable the above function. Use the **memory auto-establish enable** command to enable the above function again. By default, the function is always enabled.

System view

`mfc (R2 CAS)`

Use the **mfc** command to maintain of MFC channel of the specified timeslot.

R2 CAS view

`mfr bundle-name`

Use the **mfr bundle-name** command to set frame relay bundle identification (BID).

MFR Interface view

`mfr fragment`

Use the **mfr fragment** command to enable FRF.16 fragmentation on the MFR bundle.

MFR Interface view

`mfr fragment-size`

Use the **mfr fragment-size** command to configure the maximum fragment size allowed on a frame relay bundle link.

Frame Relay Interface view
MFR Interface view

`mfr link-name`

Use the **mfr link-name** command to set the frame relay bundle link identification (LID).

Frame Relay Interface view

`mfr retry`

Use the **mfr retry** command to set the maximum times that a frame relay bundle link can resend hello message when waiting for a hello acknowledgement message.

Frame Relay Interface view

`mfr timer ack`

Use the **mfr timer ack** command to set the time of waiting for hello acknowledgment message before frame relay bundle link resends hello message.

Frame Relay Interface view

`mfr timer hello`

Use the **mfr timer hello** command to set the interval for a frame relay bundle link to send hello message.

Frame Relay Interface view

`mfr window-size`

Use the **mfr window-size** command to configure the number of fragments that can be held by the window used in sliding window algorithm when multilink frame relay reassembles received fragments.

MFR Interface view

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min-active-links

Use the **min-active-links** command to configure the minimum number of available links required for the IMA group to operate.

IMA Group Interface view

mkdir

Use the **mkdir** command to create a directory on the remote FTP server.

FTP Client view

mkdir

Use the **mkdir** command to create a directory on the remote SFTP server.

SFTP Client view

mkdir

Use the **mkdir** command to create a directory under the specified directory on the specified storage device.

User view

mobile-ip

Use the **mobile-ip** command to enable the MIP function.

System view

mobile-ip foreign-agent

Use the **mobile-ip foreign-agent** command to set foreign agent care-of addresses and the pending time.

System view

mobile-ip foreign-agent service

Use the **mobile-ip foreign-agent service** command to enable FA service on an interface.

Interface view

mobile-ip home-agent

Use the **mobile-ip home-agent** command to enable HA service on a router.

System view

mobile-ip home-agent mobile-router

Use the **mobile-ip home-agent mobile-router** command to configure an MR on an HA. This command will bring you to HA-MR view.

System view

mobile-ip irdp

Use the **mobile-ip irdp** command to enable IRDP and configure the relevant attributes on an interface.

Interface view

mobile-ip mobile-router

Use the **mobile-ip mobile-router** command to enable the MR function and enter MR view.

System view

mobile-ip mobile-router ccoa

Use the **mobile-ip mobile-router ccoa only** command to specify that the interface can only use a co-located care-of address to register.

Use the **mobile-ip mobile-router ccoa only gateway** command to configure the default gateway for the interface using a co-located care-of address to register.

Interface view

mobile-ip mobile-router roam

Use the **mobile-ip mobile-router roam** command to enable the roaming function on the interface, that is, to allow the interface to function as the roaming interface of the MR.

Interface view

mobile-ip mobile-router solicit

Use the **mobile-ip mobile-router solicit** command to configure agent solicitation retransmission parameters.

Interface view

mobile-ip prefix-length

Use the **mobile-ip prefix-length** command to add the prefix-length extension part in the agent advertisement.

Interface view

mobile-ip registration-lifetime

Use the **mobile-ip registration-lifetime** command to set the registration lifetime of the MN.

Interface view

mobile-ip secure

Use the **mobile-ip secure** command to configure mobility security associations on HAs, FAs, and MRs.

System view

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`mobile-ip tunnel path-mtu-discovery`

Use the **mobile-ip tunnel path-mtu-discovery** command to set the PMTU update policy.

System view

`mobile-ip virtual-network`

Use the **mobile-ip virtual-network** command to define a virtual network.

System view

`mobile-network`

Use the **mobile-network** command to configure a mobile network for an MR.

HA-MR view

`mobile-network`

Use the **mobile-network** command to configure a mobile network for the MR.

MR view

`mobile-node`

Use the **mobile-node** command to set MN attributes, including the interface or virtual network and the registration lifetime.

System view

`mode`

Use the **mode** command to configure the R2 signaling mode in a country or region.

R2 CAS view

`mode (SIP Client view)`

Use the **mode** command to set the registration mode of the gateway.

SIP Client view

`modem`

Use the **modem** or **modem both** command to allow modem calls to pass through, both incoming and outgoing.

Use the **modem [call-in | call-out]** command to allow incoming or outgoing modem calls to pass through.

User Interface view

`modem adapt no-waiting-connect`

Use the **modem adapt no-waiting-connect** command to set the asynchronous serial interface Modem to switch from IDLE to ACTIVE without waiting for receiving the signal CONNECT (a signal used for a physical modem to negotiation rate) after it receives CD_UP (a lower layer detects carrier signal).

User Interface view

`modem auto-answer`

Use the **modem auto-answer** command to have the external modem connected to the asynchronous interface automatically answer or hook off.

User Interface view

`modem auto-answer`

Use the **modem auto-answer** command to set the answering mode to auto-answer.

User Interface view

`modem compatible-param`

Use the **modem compatible-param** command in the case that you fail to use standard Modem PCM to interoperate with devices from other vendors.

Voice Entity view

`modem protocol`

Use the **modem protocol none** protocol to disable Modem function for single voice entity.

Use the **modem protocol pcm** command to configure PCM Modem protocol type for single voice entity, including coding/decoding and Modem negotiation mode.

Voice Entity view

`modem timer answer`

Use the **modem timer answer** command to set the timeout time spent waiting for the carrier signal after the off-hook action when setting up an incoming call connection.

User Interface view.

`monitor-port`

Use the **monitor-port** command to specify the current port as the monitoring port

Ethernet Interface view

`more`

Use the **more** command, you can view the contents of the specified file.

User view

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`motorola base-svc`

Use the **`motorola base-svc`** command to configure the start SVC for voice routing on a DLCI.

DLCI view

`motorola encapsulation`

Use the **`motorola encapsulation`** command to specify an encapsulation for Motorola LCON on the DLCI.

DLCI view

`motorola max-voice`

Use the **`motorola max-voice`** command to configure the maximum number of voice channels created on a DLCI concurrently.

DLCI view

`motorola remote-id`

Use the **`motorola remote-id`** command to configure a remote connection ID.

DLCI view

`move`

Use the **`move`** command to move a file.

User view

`mpls`

Use the **`mpls`** command in system view to enable MPLS globally and enter MPLS view.

Use the **`mpls`** command in interface view to enable MPLS on the interface.

Interface view
Routing Protocol view
System view
Virtual Interface view

`mpls l2vc`

Use the **`mpls l2vc`** command to create an LDP connection.

Interface view

`mpls l2vpn`

Use the **`mpls l2vpn`** command to enable L2VPN.

System view

`mpls l2vpn encapsulation`

Use the **`mpls l2vpn encapsulation`** command to create Kompella MPLS L2VPN, specify encapsulation type, and enter MPLS L2VPN view.

System view

`mpls-exp`

Use the **`mpls-exp`** command to configure the PVC to carry packets of the specified priority levels when the EXP identifier in the MPLS packet is used to identify the priority levels of packets.

ATM Pvc-Group view

`mpls label advertise`

Use the **`mpls label advertise`** command to specify at the egress the type of the label to be distributed to the penultimate hop.

MPLS view

`mpls ldp`

Use the **`mpls ldp`** command to enable LDP.

System view

`mpls ldp enable`

Use the **`mpls ldp enable`** command to enable LDP on the interface.

Interface view

`mpls ldp hops-count`

Use the **`mpls ldp hops-count`** command to set the maximum hops of loop detection.

System view

`mpls ldp loop-detect`

Use the **`mpls ldp loop-detect`** command to enable loop detection.

System view

`mpls ldp password`

Use the **`mpls ldp password`** command to configure LDP authentication mode.

Interface view
Remote-Peer view

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mpls ldp path-vectors

Use the **mpls ldp path-vectors** command to set the maximum value of path vector.

System view

mpls ldp remote-peer

Use the **mpls ldp remote-peer** command to create a remote-peer entity and enter remote-peer view.

Remote-Peer view
System view

mpls ldp reset-session

Use the **mpls ldp reset-session** command to reset a specified session on an interface.

Interface view

mpls ldp timer

Use the **mpls ldp timer** command to set the duration of a Hello hold timer or session hold timer.

Interface view
Remote-Peer view

mpls ldp transport-ip

Use the **mpls ldp transport-ip** command to configure an LDP session transport address.

Interface view

mpls lsr-id

Use the **mpls lsr-id** command to configure an LSR ID.

System view

mpls static-l2vc

Use the **mpls static-l2vc** command to create an SVC MPLS L2VPN connection.

Interface view

msdp

Use the **msdp** command to enable MSDP and enter the MSDP view.

System view

msdp-tracert

Use the **msdp-tracert** command to trace the transmission path of SA messages in the network.

Any view

mtu

Use the **mtu** command to set the size of Maximum Transmission Unit (MTU) of the ATM interface.

Interface view

mtu

Use the **mtu** command to configure MTU of Kompella MPLS L2VPN.

MPLS L2VPN view

mtu (ATM Interface)

Use the **mtu** command to set the MTU size of the ATM interface.

Interface view

mtu (Ethernet/GE Interface)

Use the **mtu** command to set the MTU size of the Ethernet interface.

Ethernet Interface view

mtu label-including

Use the **mtu label-including** command to configure to include MPLS label length in outgoing interface MTU calculation.

MPLS view

mtu (POS Interface)

Use the **mtu** command to set the MTU size of the POS interface.

POS Interface view

mtu (serial interface)

Use the **mtu** command to set MTU of the serial interface.

AM Interface view
AUX Interface view
Serial Interface view

mtu (Tunnel Interface)

Use the **mtu** command to set the maximum transmission unit (MTU) for Tunnel interface.

Tunnel Interface view

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`mtracert`

Use the **mtracert** command to trace the network path from the multicast source to the destination receiver along Multicast Distribution Tree, according to either the multicast kernel routing table or RPF rule to the source.

Any view

`multi-path-number`

Use the **multi-path-number** command to configure maximum number of OSPF equal-cost routes.

OSPF view

`multicast minimum-ttl`

Use the **multicast minimum-ttl** command to configure the minimum TTL value for multicast forwarding.

Interface view

`multicast packet-boundary`

Use the **multicast packet-boundary** command to configure a multicast forwarding boundary.

Interface view

`multicast route-limit`

Use the **multicast route-limit** command to limit the multicast routing table capacity. If the capacity exceeds the limit, the router will discard protocols and data packets of the newly-added (S, G).

System view

`multicast routing-enable`

Use the **multicast routing-enable** command to enable IP multicast routing.

System view

`multiplex mode`

Use the **multiplex mode** command to set AUG multiplexing mode.

CPOS Interface view

`nas-ip`

Use the **nas-ip** command to set the source IP address of the network access server (NAS, the router in this manual), so that all packets destined for the RADIUS server carry the same source IP address.

RADIUS view

`nas-ip`

Use the **nas-ip** command to have all the TACACS+ packets sent by the NAS (the router) carry the same source address.

TACACS+ view

`nat address-group`

Use the **nat address-group** command to configure an address pool.

System view

`nat aging-time`

Use the **nat aging-time** command to set the lifetime of NAT connections.

System view

`nat agl`

Use the **nat alg** command to enable the application gateway function of NAT.

System view

`nat connection-limit-policy`

Use the **nat connection-limit-policy** command to specify the NAT connection limit policy.

System view

`nat dns-map`

Use the **nat dns-map** command to configure a NAT entry, mapping a domain name to a triplet of external IP address, port number, and protocol type.

System view

`nat oubound`

Use the **nat outbound** command to associate an ACL with an address pool, indicating that the address specified in the ***acl-number*** can be translated by using address pool ***group-number***.

Interface view

`nat outbound interface`

Use the **nat outbound interface** command to associate an ACL with an interface and to use the address of the interface as the target address in the translations for the packets matching the ACL. After that, this address substitutes for the source addresses of the packets matching the ACL.

Interface view

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nat outbound static

Use the **nat outbound static** command to apply on the interface one-to-one address translation configured using the **nat static** command.

Interface view

nat overlapaddress

Use the **nat overlapaddress** command to map an overlapping address pool to a temporary address pool.

System view

nat server

Use the **nat server** command to define a mapping table for internal servers. Users can access the internal server with the address and port as host-addr and host-port respectively through the address port defined by global-addr and global-port.

Interface view

nat static

Use the **nat static** command to configure a one-to-one private-to-public address binding.

System view

nat static inside

Use the **nat static inside** command to create a static net-to-net NAT entry. When the router translates addresses based on this type of NAT entry, it translates the network address portion without touching the host address portion.

System view

nat traversal

Use the **nat traversal** command to configure the NAT traversal function of IKE/IPSec.

IKE-Peer view

national-bit

Use the **national-bit** command to configure national bit on the CE3 interface.

CE3 Interface view

naturemask-arp

Use the **naturemask-arp enable** command to support ARP within natural network segments rather than subnets.

System view

nbns-list

Use the **nbns-list** command to configure NetBIOS server addresses in a global DHCP address pool for the clients.

DHCP Address Pool view

nesting

Use the **nesting** command to configure a nesting rule.

ACL view

netbios-type

Use the **netbios-type** command to configure the NetBIOS node type of the clients of a global DHCP address pool.

DHCP Address Pool view

network

Use the **network** command to configure the network routes advertised by the local BGP system.

BGP view

network

Use the **network** command to configure an IP address range used for dynamic allocation.

DHCP Address Pool view

network

Use the **network** command to configure the network addresses to be sent by the local BGP.

IPv4 Multicast Subaddress Family view

network

Use the **network** command to configure the interface running OSPF.

OSPF Area view

network

Use the **network** command to enable Routing Information Protocol (RIP) on the interface.

RIP view

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network-entity

Use the **network-entity** command to configure the name of Network Entity Title (NET) of the IS-IS routing process.

IS-IS view

normal-connect slow-h245

Use the **normal-connect slow-h245** command to configure disabling the calling end from actively initiating an H245 connection request to the called end before the called end is hooked off in voice entity view.

Use the **normal-connect slow-h245** command to disable the calling end from actively initiating an H245 connection request to the called end before the called end is hooked off in voice entity view.

VoIP Voice Entity view

nslookup type

Use the **nslookup type** command to resolve the specified IP address or domain name to a domain name or IP address.

Any view

nssa

Use the **nssa** command to configure an area as NSSA area.

OSPF Area view

ntp-service access

Use the **ntp-service access** command to control access to the NTP service on the local device.

System view

ntp-service authentication enable

Use the **ntp-service authentication enable** command to enable NTP service ID authentication.

System view

ntp-service authentication-keyid

Use the **ntp-service authentication-keyid** command to set an NTP authentication key.

System view

ntp-service broadcast-client

Use the **ntp-service broadcast-client** command to configure NTP broadcast client mode.

Interface view

ntp-service broadcast-server

Use the **ntp-service broadcast-server** command to configure NTP broadcast server mode.

Interface view

ntp-service max-dynamic-sessions

Use the **ntp-service max-dynamic-sessions** command to set the number of sessions allowed by the local device.

System view

ntp-service multicast-client

Use the **ntp-service multicast-client** command to configure NTP multicast client mode.

Interface view

ntp-service multicast-server

Use the **ntp-service multicast-server** command to configure NTP multicast server mode.

Interface view

ntp-service refclock-master

Use the **ntp-service refclock-master** command to set the local clock as the NTP master clock to provide synchronization source.

System view

ntp-service reliable authentication-keyid

Use the **ntp-service reliable authentication-keyid** command to specify a reliable key.

System view

ntp-service source-interface

Use the **ntp-service source-interface** command to specify an interface for the local end to transmit NTP messages.

System view

ntp-service unicast-peer

Use the **ntp-service unicast-peer** command to configure NTP peer mode.

System view

ntp-service unicast-server

Use the **ntp-service unicast-server** command to configure NTP server mode.

System view

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number-match

Use the **number-match** command to configure a global number match-policy.

Voice Dial Program view

number-substitute

Use the **number-substitute** command to create a number-substitute list and enter voice dial program view.

Voice Dial Program view

oam ais-rdi

Use the **oam ais-rdi** command to change the parameters related to AIS/RDI alarm cell detection. If no argument is specified, the default value applies.

ATM Class view
PVC view

oam frequency

Use the **oam frequency** command to enable the transmission of OAM F5 Loopback cell so as to check the PVC status. You can also enable OAM F5 Loopback retransmission check or modify the related parameters of the retransmission check.

ATM Class view
PVC view

oamping interface

Use the **oamping interface** command to enable the specified ATM interface to send OAM cells on the specified PVC for checking link state. Receiving no response upon expiration of the specified time indicates that the link is disconnected, busy, or prone to packet loss.

ATM Interface view

opaque-capability

Use the **opaque-capability enable** command to enable the Opaque capability of OSPF.

OSPF view

open

Use the **open** command to set up control connection to the remote FTP server.

FTP Client view

open-trunk

Use the **open-trunk** command to enable E&M non-signaling mode.

Analog E&M Voice Subscriber Line view

option

Use the **option** command to configure the self-defined options for a DHCP global address pool.

DHCP Address Pool view

organization

Use the **organization** command to specify the name of the organization to which the entity belongs.

PKI Entity view

organizational-unit

Use the **organizational-unit** command to specify the name of the organization unit to which this entity belongs.

PKI Entity view

originating-rp

Use the **originating-rp** command to allow a MSDP to use the IP address of specified interface as the RP address in the SA message originated.

MSDP view

osm connect slot

Use the **osm connect slot** command to connect the current control terminal to the OSM board to manage the system on the OSM board. If you want to return from the OSM board to the operation interface on the router, click hot key <Ctrl+k>.

User view

osm reboot slot

Use the **osm reboot slot** command to reset the OSM board.

User view

osm reload slot

Use the **osm reload slot** command to restart the operation system on OSM board.

User view

osm shutdown slot

Use the **osm shutdown slot** command to shut down the operation system on OSM board. This operation equals to execute the turn off command on the operation system of OSM board.

User view

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`ospf`

Use the **ospf** command to enable the OSPF protocol.

System view

`ospf authentication-mode`

Use the **ospf authentication-mode** command to configure the authentication mode and key between adjacent routers.

Interface view

`ospf cost`

Use the **ospf cost** command to configure different packet sending costs so as to send packets from different interfaces.

Interface view

`ospf dr-priority`

Use the **ospf dr-priority** command to configure the priority for electing the "designated router" on an interface.

Interface view

`ospf mib-binding`

Use the **ospf mib-binding** command, MIB operation can be bound on the specified OSPF process.

System view

`ospf mtu-enable`

Use the **ospf mtu-enable** command to enable the interface to write MTU value when sending DD packets.

Interface view

`ospf network-type`

Use the **ospf network-type** command to configure the network type of OSPF interface.

Interface view

`ospf timer dead`

Use the **ospf timer dead** command to configure the dead interval of the OSPF neighbor.

Interface view

`ospf timer hello`

Use the **ospf timer hello** command to configure the interval for transmitting Hello messages on an interface.

Interface view

`ospf timer poll`

Use the **ospf timer poll** command to configure the poll Hello message interval on nbma and p2mp network.

Interface view

`ospf timer retransmit`

Use the **ospf timer retransmit** command to configure the interval for LSA re-transmitting on an interface.

Interface view

`ospf trans-delay`

Use the **ospf trans-delay** command to configure the LSA transmitting delay on an interface.

Interface view

`ospf vpn instance`

Use the **ospf** command to enable an OSPF process.

System view

`option`

Use the **option** command to specify the logical relationship between the addresses to be probed in the detect group.

Detect Group view

`outband`

Use the **outband** command to configure transmission of DTMF code in the outband mode.

Voice Entity view

`outband vofr`

Use the **outband vofr** command to configure out-of-band transmission of DTMF codes.

Voice Entity view

`overlap voip h323`

Use the **overlap voip h323** command to configure the calling party to support h323 overlap mode for sending numbers.

Voice Dial Program view

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`packing timer`

Use the **packing-timer** command to set the maximum waiting time for one PVC.

PVC view

`pad`

Use the **pad** command to establish a PAD connection with the remote site.

User view

`pad-mode pos enable`

Use the **pad-mode pos enable** command to enable POSPAD access mode.

Synchronous Serial Interface view

`parity`

Use the **parity** command to set the check bit of the user interface.

User Interface view

`passive`

Use the **passive** command to set data transmission mode to passive.

FTP Client view

`password`

Use the **password** command to configure the password required for logging onto the FTP server.

HWPing Test Group view

`password`

Use the **password** command to configure a password for a local user.

Local User view

`password-digit`

Use the **password-digit** command to configure the user password digits of a certain access service number in the card number process.

Voice Access-Number view

`payload-size`

Use the **payload-size** command to notify the underlying layer how much time DSP spends assembling a voice packet, or the time length of each voice packet.

Voice Entity view

`pcm`

Use the **pcm** command to configure a companding law used for quantizing signals.

Voice Subscriber-Line view

`peer`

Use the **peer** command to configure the destination address of the peer to which information is sent in unicast mode.

RIP view

`peer`

Use the **peer** command to configure an MSDP peer.

MSDP view

`peer`

Use the **peer** command to configure the IP address of adjacent routers and specify a DR priority on an NBMA network.

OSPF view

`peer`

Use the **peer** command to configure the subnet type in IKE negotiation.

IKE-Peer view

`peer advertise-community`

Use the **peer advertise-community** command to enable the transmission of community attributes to a peer group.

BGP view
VPNv4 view
VPN Instance view

`peer advertise-community`

Use the **peer advertise-community** command to configure to advertise community attributes to a peer (group).

IPv4 Multicast Subaddress Family view

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peer allow-as-loop

Use the **peer allow-as-loop** command to configure the repeating times of the local AS number.

BGP view
VPNv4 view
VPN Instance view

peer allow-as-loop

Use the **peer allow-as-loop** command to allow the AS_PATH attribute in the received routes to include the local AS number.

IPv4 Multicast Subaddress Family view

peer as-number

Use the **peer as-number** command to specify an AS number for a peer group.

BGP view

peer as-path-acl

Use the **peer as-path-acl** command to specify BGP route filtering policy based on AS path list for a peer/peer group.

BGP view
VPNv4 view
VPN Instance view

peer as-path-acl

Use the **peer as-path-acl import** command to have MBGP filter the routes received from the specified peer or peer group based on the specified AS path list.

Use the **peer as-path-acl export** command to have MBGP filter the routes advertised to the specified peer or peer group.

IPv4 Multicast Subaddress Family view

peer connect-interface

Use the **peer connect-interface** command to specify the source interface for route updates.

BGP view

peer default-route-advertise

Use the **peer default-route-advertise** command to redistribute a default route to a peer group.

BGP view

peer default-route-advertise

Use the **peer default-route-advertise** command to enable a peer (group) to import a default route.

BGP view
MBGP IPv4-Family view

peer description

Use the **peer description** command to configure the description information of the peer/peer group.

BGP view

peer description

Use the **peer description** command to configure descriptive text to MSDP peer.

MSDP view

peer ebgp-max-hop

Use the **peer ebgp-max-hop** command to allow establishing EBGP connection with a neighbor on an indirectly connected network.

BGP view

peer enable

Use the **peer enable** command to enable the specified peer (group).

BGP Unicast Address Family view
L2VPN Address Family view
IPv4 Multicast Sub-address Family view
VPNv4 Address Family view

peer enable

Use the **peer enable** command to enable the multicast peer or peer group.

IPv4 Multicast Subaddress Family view

peer enable

Use the **peer enable** command to activate the specified peer (group) in L2VPN address family view.

L2VPN Address Family view

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peer filter-policy

Use the **peer filter-policy import** command to configure BGP to filter routes received from the peer (group) based on the ACL.

Use the **peer filter-policy export** command to configure BGP to filter routes advertised to the peer (group) based on the ACL.

BGP view
IPv4 Multicast Sub-Address Family view

peer filter-policy

Use the **peer filter-policy import** command to have MBGP filter the routes received from the specified peer or peer group based on the specified ACL.

Use the **peer filter-policy export** command to have MBGP filter the routes advertised to the specified peer or peer group based on the specified ACL.

IPv4 Multicast Subaddress Family view

peer group

Use the **peer group** command to add a peer to a peer group.

BGP view

peer ip-prefix

Use the **peer ip-prefix import** command to configure BGP to filter routes received from the peer/peer group based on the ip-prefix list.

Use the **peer ip-prefix export** command to configure BGP to filter routes advertised to the peer/peer group based on the ip-prefix list.

BGP view
VPNv4 view
VPN Instance view

peer ip-prefix

Use the **peer ip-prefix import** command to have MBGP filter the routes received from the specified peer or peer group based on the specified address prefix list.

Use the **peer ip-prefix export** command to have MBGP filter the routes advertised to the specified peer or peer group based on the specified address prefix list.

IPv4 Multicast Subaddress Family view

peer label route-capability

Use the **peer label-route-capability** command to enable the capability of a peer to process IPv4 routes with labels.

BGP view

peer mesh-group

Use the **peer mesh-group** command to configure an MSDP peer to join an Mesh Group.

MSDP view

peer minimum-ttl

Use the **peer minimum-ttl** command to configure the minimum TTL (Time-to-Live) value of the multicast data packets encapsulated in SA messages to be sent to specified MSDP peer.

MSDP view

peer next-hop-invariable

Use the **peer next-hop-invariable** command to configure the invariable next hop when sending routes to EBGP peers.

BGP view
BGP VPN-Instance view
BGP-VPNv4 Subaddress Family view
BGP-IPv4 Multicast Subaddress Family view

peer next-hop-local

Use the **peer next-hop-local** command to configure the next hop in the route to be advertised to the peer group as the address of the local router.

BGP view

peer next-hop-local

Use the **peer next-hop-local** command to remove the processing of the next hop in routes which BGP will advertise to the peer (group) and set the local address as the next hop.

IPv4 Multicast Subaddress Family view

peer password

Use the **peer password** command to configure BGP to perform MD5 authentication before setting up a TCP connection.

BGP view
MBGP VPN-Instance Address Family view

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peer public-as-only

Use the **peer public-as-only** command to configure not to carry the private AS number when transmitting BGP updates.

BGP view

peer public-as-only

Use the **peer public-as-only** command to configure only to carry public AS number rather than private AS number when BGP sends update packets.

IPv4 Multicast Subaddress Family view

peer-public-key end

Use the **peer-public-key end** command to return to system view from public key view.

Public Key view

peer reflect-client

Use the **peer reflect-client** command to configure a peer group as the route reflector client.

BGP view
VPNv4 view

peer reflect-client

Use the **peer reflect-client** command to configure a peer (group) as a client of the route reflector.

IPv4 Multicast Subaddress Family view

peer request-sa-enable

Use the **peer request-sa-enable** command to enable the router to send SA request message to the specified MSDP peer when receiving a new group join message.

MSDP view

peer route-policy

Use the **peer route-policy import** command to configure MBGP to filter routes received from the peer (group) based on the route-policy.

Use the **peer route-policy export** command to configure MBGP to filter routes advertised to the peer (group) based on the route-policy.

BGP view
VPNv4 view
VPN Instance view

peer route-policy

Use the **peer route-policy import** command to have MBGP apply the specified routing policy to the routes received from the specified peer or peer group.

Use the **peer route-policy export** command to have MBGP apply the specified routing policy to the routes advertised to the specified peer or peer group.

IPv4 Multicast Subaddress Family view

peer route-update-interval

Use the **peer route-update-interval** command to configure the interval for a peer group to advertise route updates.

BGP view
VPNv4 view
VPN Instance view

peer sa-cache-maximum

Use the **peer sa-cache-maximum** command to limit the number of caches originated when the router receives SA messages from an MSDP peer.

MSDP view

peer sa-policy

Use the **peer sa-policy** command to configure a filter list for SA messages received or forwarded from the specified MSDP peer.

MSDP view

peer sa-request-policy

Use the **peer sa-request-policy** command to limit SA request messages that the router receives from MSDP peers.

MSDP view

peer shutdown

Use the **peer shutdown** command to disable the specified BGP peer or peer group to initiate or receive BGP connection or to disconnect a BGP connection that has existed.

BGP view
VPN Instance view

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`peer timer`

Use the **peer timer** command to configure Keepalive and Holdtime intervals for a peer (group).

BGP view

`peer upe`

Use the **peer upe** command to configure BGP peer as the UPE of hierarchical BGP/MPLS VPN.

BGP view

`permanent-active`

Use the **permanent-active** command to configure BSV interfaces to permanent active.

BSV Interface view (in NTmode)

`pfs`

Use the **pfs** command to set the Perfect Forward Secrecy (PFS) feature for the IPSec policy to initiate the negotiation.

IPSec Policy view
IPSec Policy Template view

`phy-mru`

Use the **phy-mru** command to configure in asynchronous flow mode MRU at the physical layer.

Asynchronous Serial Interface view

`physical-mode`

Use the **physical-mode** command to set the operating mode of the synchronous/asynchronous serial interface.

Serial Interface view

`pim`

Use the **pim** command to enter PIM view.

System view

`pim bsr-boundary`

Use the **pim bsr-boundary** command to configure an interface to become the PIM domain boundary.

Interface view

`pim dm`

Use the **pim dm** command to enable PIM-DM.

Interface view

`pim neighbor-limit`

Use the **pim neighbor-limit** command to limit PIM neighbor number on an router interface. If the number exceeds the limit configured, no new neighbor can be added to the router.

Interface view

`pim neighbor-policy`

Use the **pim neighbor-policy** command to configure a router to filter the PIM neighbor of the current interface.

Interface view

`pim sm`

Use the **pim sm** command to enable PIM-SM protocol on an interface.

Interface view

`pim timer hello`

Use the **pim timer hello** command to configure the interval for sending PIM router Hello messages.

Interface view

`ping`

Use the **ping** command to test connectivity of an IP network and reachability of a host.

Any view

`ping clns`

Use the **ping clns** command to test the reachability to a specified destination.

Any view

`ping ipx`

Use the **ping ipx** command to check host reachability and network connectivity in IPX network.

Any view

`pki delete-certificate`

Use the **pki delete-certificate** command to delete the locally stored certificates.

System view

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pki domain

Use the **pki domain** command to enter PKI domain view, and configure the parameters of LDAP server and for certificate request and authentication.

System view

pki entity

Use the **pki entity** command to name a PKI entity and enter PKI entity view.

Any view

pki import-certificate

Use the **pki import-certificate** command to import an existing CA certificate or local certificate.

System view

pki request-certificate

Use the **pki request-certificate** command to deliver certificate request through SCEP to CA for the generated RSA key pair.

System view

pki retrieval-certificate

Use the **pki retrieval-certificate** command to download a certificate from the certificate issuing server.

System view

pki retrieval-crl

Use the **pki retrieval-crl** command to obtain the latest CRL from CRL server for the verification of the validity of a current certificate.

System view

pki validate-certificate

Use the **pki validate-certificate** command to verify the validity of a certificate.

System view

plan-numbering

Use the **plan-numbering** command to configure the calling/called numbering plan attribute of voice entities.

Voice Entity view

play stop-accounting-buffer

Use the **display stop-accounting-buffer** command to view information on the stop-accounting requests buffered in the router by RADIUS scheme, session ID, or time range. The displayed packet information can help you troubleshoot RADIUS faults.

Any view

plc-mode

Use the **plc-mode** command to configure packet loss compensation mode.

Voice Subscriber-Line view

policy vpn-target

Use the **policy vpn-target** command to filter the received routing information according to the VPN-target extended community attributes.

BGP-VPNv4 Subaddress Family view

port access vlan

Use the **port access vlan** command to add the port whose link type is access to a specified VLAN.

Ethernet Port view

port hybrid pvid vlan

Use the **port hybrid pvid vlan** command to assign a default VLAN ID to the hybrid port.

Ethernet Port view

port-mapping

Use the **port-mapping** command to establish a mapping from the port to application layer protocol.

System view

port trunk permit vlan

Use the **port trunk permit vlan** command to assign the trunk port to the specified VLANs.

Ethernet Port view

portal

Use the **portal** command to enable portal authentication on an interface.

Ethernet Interface view

portal all-resource-id

Use the **portal all-resource-id** command to configure the all-resource ID.

System view

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`portal auth-network`

Use the **`portal auth-network`** command to configure a network segment for portal authentication.

System view

`portal fast-authentication`

Use the **`portal fast-authentication`** command to enable fast portal authentication.

System view

`portal free-ip`

Use the **`portal free-ip`** command to configure a free IP address.

System view

`portal free-user`

Use the **`portal free-user`** command to configure a portal authentication-free user.

System view

`portal method`

Use the **`portal method`** command to specify a portal authentication method.

System view

`portal resource`

Use the **`portal resource`** command to create an accessible-resource name.

System view

`portal server`

Use the **`portal server`** command to configure a portal server or modify the configuration of a portal server.

System view

`portal service-type`

Use the **`portal service-type`** command to set the portal authentication mode.

System view

`portal update-resource`

Use the **`portal update-resource`** command to add an IP address to update resources.

System view

`portal update-resource-id`

Use the **`portal update-resource-id`** command to configure the update-resource ID.

System view

`portal upload-ip`

Use the **`portal upload-ip`** command to configure the IP address of the interface connected to the CAMS server.

Ethernet Interface view

`pos-server app tcp`

Use the **`pos-server app tcp`** command to configure a POS application in TCP/IP connection mode.

System view

`pos-server app x25`

Use the **`pos-server app x25`** command to configure the specified POS application on the POSPAD client router.

System view

`pos-server checkschar`

Use the **`pos-server checkschar`** command to enable the system to check POS packets for the string 10 04.

System view

`pos-server enable`

Use the **`pos-server enable`** command to enable POS access server.

System view

`pos-server fcm`

Use the **`pos-server fcm`** command to configure FCM parameters for modem negotiation.

System view

`pos-server map`

Use the **`pos-server map`** command to configure a multi-application POS access map entry.

System view

`pos-server padmode`

Use the **`pos-server padmode`** command to configure a POSPAD packet encapsulation format.

System view

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pos-server source-ip

Use the **pos-server source-ip** command to bind the specified application with the source address of a TCP connection.

System view

pos-server wait-time

Use the **pos-server wait-time** command to set the POSPAD wait timer.

System view

power-source

Use the **power-source** command to enable remote power supply.

BSV Interface view (in NT mode)

ppp authentication-mode

Use the **ppp authentication-mode** command to set the mode that the local PPP uses to authenticate the peer router.

Interface view
Virtual-Template Interface view

ppp callback

Use the **ppp callback** command to enable an interface to send or accept PPP callback requests.

Physical or Dialer Interface view

ppp callback ntstring

Use the **ppp callback ntstring** command to configure the dial number required for a Windows NT server to call back the router.

Physical or Dialer Interface view

ppp chap password

Use the **ppp chap password** command to configure the password for CHAP authentication.

Interface view

ppp chap user

Use the **ppp chap user** command to configure the user name when performing the CHAP authentication.

Interface view

ppp compression iphc

Use the **ppp compression iphc** command to enable IP header compression on the interface.

Interface view

ppp compression iphc rtp-connections

Use the **ppp compression iphc rtp-connections** command to designate the connections number of IP Header Compression allowed on one interface.

Interface view

ppp compression iphc tcp-connections

Use the **ppp compression iphc tcp-connections** command to configure the connection number of TCP compression mode.

Interface view

ppp compression stac-lzs

Use the **ppp compression stac-lzs** command to enable STAC-LZS compression for PPP.

Interface view

ppp ipcp dns

Use the **ppp ipcp dns** command to enable the router to allocate a DNS address to the peer.

Interface view

ppp ipcp dns admit-any

Use the **ppp ipcp dns admit-any** command to enable the router to accept the unsolicited DNS server address allocated by the peer without sending a DNS request.

Interface view

ppp ipcp dns request

Use the **ppp ipcp dns request** command to enable the router to request the peer for a DNS server address.

Interface view

ppp ipcp remote-address forced

Use the **ppp ipcp remote-address forced** command to forbid the peer to use the fix self-configured IP address but the one allocated by this router.

Interface view

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`ppp lcp mru consistent`

Use the **ppp lcp mru consistent** command to enable PPP LCP to negotiation maximum receive unit (MRU).

Interface view

`ppp lqc`

Use the **ppp lqc** command to enable PPP link quality control (LQC).

Interface view

`ppp mp`

Use the **ppp mp** command to enable the interface encapsulated with PPP to operate in the MP mode.

Interface view

`ppp mp binding-mode`

Use the **ppp mp binding-mode** command to set the MP binding condition.

Dialer Interface view
Virtual Template Interface view,

`ppp mp lfi`

Use the **ppp mp lfi** command to configure the link fragmentation and interleaving features.

Virtual Template Interface view

`ppp mp lfi`

Use the **ppp mp lfi** command to enable link fragmentation and interleaving (LFI) on the interface.

MP-Group Interface view
Virtual Template Interface view,

`ppp mp lfi delay-per-frag`

Use the **ppp mp lfi delay-per-frag** command to set the maximum time delay for transmitting a LFI fragment.

MP-Group Interface view
Virtual Template Interface view,

`ppp mp max-bind`

Use the **ppp mp max-bind** command to configure maximum number of bound links of MP.

Dialer Interface view
Virtual Template Interface view

`ppp mp min-bind`

Use the **ppp mp min-bind** command to configure the minimum number of PPP links that an MP bundle must have.

Dialer Interface view

`ppp mp min-fragment`

Use the **ppp mp min-fragment** command to set minimum size of outgoing fragments.

Virtual Template Interface view

`ppp mp mp-group`

Use the **ppp mp mp-group** command to add the current interface to the specified MP-group.

Interface view

`ppp mp sort-buffer-size`

Use the **ppp mp sort-buffer-size** command to set the size of the MP sort window.

MP-Group Interface view
Virtual Template Interface view

`ppp mp user`

Use the **ppp mp user** command to bind an MP user to a virtual template.

System view

`ppp mp virtual-template`

Use the **ppp mp virtual-template** command to configure the virtual template number to be bound by the interface.

Interface view

`ppp pap local-user`

Use the **ppp pap local-user** command to configure the username and password sent by the local router when it is authenticated by the peer router via the PAP method.

Interface view

`ppp timer negotiate`

Use the **ppp timer negotiate** command to set the PPP negotiation timeout.

Interface view

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pppoe-client

Use the **pppoe-client** command to establish a PPPoE session and specify the Dialer Bundle corresponding to the session.

Ethernet Interface (subinterface) view
Virtual Ethernet Interface view

pppoe-server bind virtual-template

Use the **pppoe-server bind virtual-template** command to enable PPPoE on the virtual-template specified by the Ethernet interface.

Interface view

pppoe-server log-information off

Use the **pppoe-server log-information off** command to enable the PPPoE server to output the PPP-related log information.

System view

pppoe-server max-sessions local-mac

Use the **pppoe-server max-sessions local-mac** command to set the maximum number of PPPoE sessions that can be established at a local MAC address.

System view

pppoe-server max-sessions remote-mac

Use the **pppoe-server max-sessions remote-mac** command to set the maximum number of PPPoE sessions that can be established at a peer MAC address.

System view

pppoe-server max-sessions total

Use the **pppoe-server max-sessions total** command to set the maximum number of PPPoE sessions that the system can establish.

System view

pq

Use the **pq** command to set the queue type of frame relay virtual circuit as Priority Queuing.

Frame Relay Class view

pre-shared-key

Use the **pre-shared-key** command to set the pre-shared key used when a client needs to authenticate a DVPN server.

Dvpn-Class view

pre-shared-key

Use the **pre-shared-key** command to configure a pre-shared key to be used in IKE negotiation.

IKE-Peer view

preference

Use the **preference** command to configure the preference of BGP protocol.

BGP Protocol view
BGP Multicast Address Family view

preference

Use the **preference** command to configure the preference of IS-IS protocol.

IS-IS view

preference

Use the **preference** command to configure the preference of an OSPF protocol route.

OSPF view

preference

Use the **preference** command to configure the route preference of RIP.

RIP view

preference clns

Use the **preference clns** command to set the preference of the CLNS routes discovered by IS-IS protocol.

IS-IS view

pri-set

Use the **pri-set** command to bundle timeslots on the CT1/PRI or CE1/PRI interface into a pri-set.

CE1/PRI Interface view
CT1/PRI Interface view

pri-set (CE1/PRI Interface)

Use the **pri-set** command to have timeslots on the CE1/PRI interface form a pri-set.

CE1/PRI Interface view

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pri-set (CT1/PRI Interface)

Use the **pri-set** command to bundle the timeslots of the CT1/PRI interface into a pri-set.

CT1/PRI Interface view

primary accounting

Use the **primary accounting** command to configure IP address and port number of the primary RADIUS accounting server.

RADIUS view

primary accounting

Use the **primary accounting** command to configure a primary TACACS accounting server.

TACACS+ view

primary authentication

Use the **primary authentication** command to configure IP address and port number of the primary RADIUS authentication/authorization server.

RADIUS view

primary authentication

Use the **primary authentication** command to configure a primary TACACS authentication server.

TACACS+ view

primary authorization

Use the **primary authorization** command to configure a primary TACACS authorization server.

TACACS+ view

priority

Use the **priority** command to configure the priority levels for voice entities.

Voice Entity view

private-ip

Use the **private-ip** command to specify a private IP address of a specified DVPN server.

Dvpn-Class view

private-line

Use the **private-line** command to configure private auto-ring mode for the subscriber line and the E.164 telephone number of the destination end.

Voice Subscriber-Line view

probe-failtimes

Use the **probe-failtimes** command to configure the number of consecutive probe failures allowed in an HWPing test before a trap is sent to the NMS.

HWPing Test Group view

process-config

Use the **process-config** command to configure the dialing process of a certain access service number.

Voice Access-Number view

promiscuous

Use the **promiscuous** command to set the Ethernet interface to operate in promiscuous mode.

Ethernet Interface view

proposal

Use the **proposal** command to set the proposal used by the IPSec policy.

IPSec Policy view
IPSec Policy Template view

protocol inbound

Use the **protocol inbound** command to enable the current user interface to support Telnet, PAD, SSH, or all of them.

VTY Interface view

protocol-priority

Use the **protocol-priority** command to set a priority for a protocol globally.

System view

proxy

Use the **proxy** command to configure the IPv4 address and port number of the proxy server.

SIP Client view

public-ip

Use the **public-ip** command to specify a public IP address of a specified DVPN server.

Dvpn-Class view

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public-key-code begin

Use the **public-key-code begin** command to enter public key code view.

Public Key view

public-key-code end

Use the **public-key-code end** command to return from public key code view to public key view and to save the configured public key.

Public Key Code view

put

Use the **put** command to FTP a local file to the remote FTP server.

FTP Client view

put

Use the **put** command to upload a local file to the remote SFTP server.

SFTP Client view

pvc

Use the **pvc** command to create a PVC or enter the PVC view at ATM interface or in PVC-Group view.

ATM Interface view
PVC-Group view

pvc-group

Use the **pvc-group** command to create a PVC-Group or enter the PVC-Group view at ATM interface.

ATM Interface view

pvc max-number

Use the **pvc max-number** command to set the maximum number of ATM interface virtual circuits (VC).

ATM Master Interface view

pvc-pq

Use the **pvc-pq** command to set the type of the PVC PQ that packets sent by frame relay virtual circuit enter.

Frame Relay Class view

pvc-protect

Use the **pvc-protect** command to configure the protection mode for a PVC in a PVC group.

ATM Pvc-Group view

pvp create

Use the **pvp create** command to create a virtual path.

Interface view

pvp limit

Use the **pvp limit** command to set the parameters for VP policing.

ATM Master Interface view

pwd

Use the **pwd** command to view the working directory on the remote FTP server.

FTP Client view

pwd

Use the **pwd** command to display the current directory on the SFTP server.

SFTP Client view

pwd

Use the **pwd** command, you can view the current path.

User view

qmtoken

Use the **qmtoken** command to configure the number of transmitted tokens.

Interface view

queue af

Use the **queue af** command to configure the class to perform the assured-forwarding and the minimum bandwidth used.

Traffic Behavior view

queue ef

Use the **queue ef** command to configure expedited-forwarding packets to the absolute priority queue and configure the maximum bandwidth.

Traffic Behavior view

queue-length

Use the **queue-length** command to configure maximum queue length.

Traffic Behavior view

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`queue wfq`

Use the **queue wfq** command to configure the default-class to use WFQ.

Traffic Behavior view

`quit`

Use the **quit** command to return from current view to lower level view, or exit the system if current view is user view.

Any view

`quit`

Use the **quit** command to disconnect from the remote FTP server and exit to user view.

FTP Client view

`quit`

Use the **quit** command to terminate the connection to the remote SFTP server and exit to system view as you would with the **bye** and **exit** commands.

SFTP Client view

`quit`

Use the **quit** command to terminate the connection to the remote SSH server.

User view

`qos apply policy`

Use the **qos apply policy** command to apply a service policy to the interface.

Interface view

`qos car`

Use the **qos car** command to implement TP policy on an interface.

Interface view

`qos carl`

Use the **qos carl** command to establish or modify a CARL.

System view

`qos cq`

Use the **qos cq cql** command to apply the customized queue to an interface.

Interface view

`qos cql default-queue`

Use the **qos cql default-queue** command to assign a default queue for those packets that do not match any rule in the CQL.

System view

`qos cql inbound-interface`

Use the **qos cql inbound-interface** command to establish classification rules based on interfaces.

System view

`qos cql protocol`

Use the **qos cql protocol** command to establish classification rules based on the protocol type.

System view

`qos cql protocol mpls exp`

Use the **qos cql protocol mpls exp** command to configure classification rule based on the MPLS protocol.

System view

`qos cql queue`

Use the **qos cql queue** command to configure the length of a queue, namely, the number of packets a queue can hold.

System view

`qos cql queue serving`

Use the **qos cql queue serving** command to set the byte-count of the packets sent from a given queue in each poll.

System view

`qos fifo queue-length`

Use the **qos fifo queue-length** command to set the length limit of FIFO queue.

Interface view

`qos gts`

Use the **qos gts** command to set shaping parameters for all or a specified type of traffic and perform traffic shaping.

Interface view

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`qos lr`

Use the **`qos lr`** command to limit the transmitting rate of the interface.

Interface (including the MFR Interface) view

`qos max-bandwidth`

Use the **`qos max-bandwidth`** command to configure the maximum interface bandwidth used when CBQ enqueues packets.

Interface view

`qos policy`

Use the **`qos policy`** command to define a policy and enter policy view.

System view

`qos pq`

Use the **`qos pq`** command to apply a group of priority list to an interface.

Interface view

`qos pql default-queue`

Use the **`qos pql default-queue`** command to designate the packets without corresponding rules to a default queue.

System view

`qos pql inbound-interface`

Use the **`qos pql inbound-interface`** command to establish classification rules based on interfaces.

System view

`qos pql protocol`

Use the **`qos pql inbound-interface`** command to establish classification rules based on interfaces.

System view

`qos pql queue`

Use the **`qos pql queue`** command to specify the maximum number of packets that can wait in each of the priority queues, or the length of a PQ.

System view

`qos pql protocol mpls exp`

Use the **`qos pql protocol mpls exp`** command to establish the classification rule based on MPLS protocol.

System view

`qos reserved-bandwidth`

Use the **`qos reserved-bandwidth`** command to set the maximum reserved bandwidth percentage.

Interface view

`qos rtpq`

Use the **`qos rtpq`** command to enable RTP queue feature on an interface so as to reserve a real-time service for the RTP packets sent to some UDP destination port ranges.

Interface view

`qos wfq`

Use the **`qos wfq`** command to apply WFQ to and configure WFQ parameters on the interface or modify WFQ parameters on the interface.

Interface view

`qos wred`

Use the **`qos wred`** command to apply WRED at an interface.

Interface view

`qos wred dscp`

Use the **`qos wred dscp`** command to set the lower limit, upper limit, and drop probability denominator of a WRED DSCP.

Interface view

`qos wred ip-precedence`

Use the **`qos wred ip-precedence`** command to configure the minimum threshold, maximum threshold and drop probability denominator for each precedence level in WRED.

Interface view

`qos wred weighting-constant`

Use the **`qos wred weighting-constant`** command to set exponential used to calculate the average length of WRED queues.

Interface view

`radius nas-ip`

Use the **`radius nas-ip`** command to specify the source address of the RADIUS packet sent from NAS.

System view

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radius scheme

Use the **radius scheme** command to configure a RADIUS scheme and enter its view.

System view

radius trap

Use the **radius trap** command to enable the RADIUS server to send traps when it goes down.

System view

ras-on

Use the **ras-on** command to enable the GK Client function.

Voice GK Client view

re-answer

Use the **re-answer** command to enable or disable the originating point to support re-answer signal process.

R2 CAS view

re-authentication

Use the **re-authentication** command to enable console login re-authentication.

User Interface view

reboot

Use the **reboot** command to have the router reboot.

User view

receive gain

Use the **receive gain** command to configure the gain value at the voice subscriber-line input end.

Voice Subscriber-Line view

redialtimes

Use the **redialtimes** command to configure the number of times of dialing in each dialing phase for a certain access service number.

Voice Access-Number view

redirect bind vpn-instance

Use the **redirect bind vpn-instance** command to bind a VPN instance to the user interface.

User Interface view

redirect disconnect

Use the **redirect disconnect** command to disconnect a redirected telnet connection manually.

User Interface view

redirect enable

Use the **redirect enable** command to enable redirect on the asynchronous serial interface.

User Interface view

redirect listen-port

Use the **redirect listen-port** command to specify a port to listen for redirected Telnet connections.

User Interface view

redirect refuse-negotiation

Use the **redirect refuse-negotiation** command to disable Telnet option negotiation during setup of redirected Telnet connection.

User Interface view

redirect return-deal from-telnet

Use the **redirect return-deal from-telnet** command to have the router that redirects Telnet connection substitute 0x0d for 0x0d 0x0a and 0x0d 0x00, the carriage returns received from the Telnet client.

User Interface view

redirect return-deal from-terminal

Use the **redirect return-deal from-terminal** command to have the router that redirects Telnet connection substitute 0x0d for 0x0d 0x0a and 0x0d 0x00, the carriage returns received from the terminal (a PC connected to the console port for example).

User Interface view

redirect timeout

Use the **redirect timeout** command to specify the amount of time that a redirected Telnet connection can stay idle. After that, the connection is disconnected.

User Interface view

reflect between-clients

Use the **reflect between-clients** command to enable route reflection between clients.

BGP view
VPNv4 view
VPN Instance view

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`reflector cluster-id`

Use the **`reflector cluster-id`** command to configure the cluster ID of the route reflector.

BGP Unicast view
BGP Multicast view
VPNv4 view

`refresh bgp`

Use the **`refresh bgp`** command to request the peer to retransmit routes or retransmit routes to the peer.

User view

`register-enable`

Use the **`register-enable`** command to enable or disable the SIP registration function.

SIP Client view

`register lifetime`

Use the **`register lifetime`** command to configure the registration lifetime of an MR.

MR view

`register-number`

Use the **`register-number`** command to enable the gateway (the VoIP-enabled router) to register the number of the voice entity with the H.323 gatekeeper or SIP server.

Voice Entity view

`register-policy`

Use the **`register-policy`** command to configure a RP to filter the register packet sent by the DR in the PIM-SM network and to accept the specific packet only.

PIM view

`register retransmit`

Use the **`register retransmit`** command to configure the registration retransmission parameters of an MR, including the initial registration retransmission interval, the maximum registration retransmission interval, and the maximum number of registration retransmission attempts.

MR view

`register-value`

Use the **`register-value`** command to configure the value of all register signals of R2 signaling.

R2 CAS view

`registrar`

Use the **`registrar`** command to configure the IP address or domain name, port number, timeout time as well as master/slave attribute of the registration server under UAs.

SIP Client view

`remark atmclp`

Use the **`remark atmclp`** command to have the system remark the CLP bit of ATM packets in the class.

Traffic Behavior view

`remark dot1p`

Use the **`remark dot1p`** command to configure the 802.1p priority value in the VLAN packets of a class.

Traffic Behavior view

`remark dsc`

Use the **`remark dscp`** command to set a remarked DSCP value for IP packets belonging to the class.

Traffic Behavior view

`remark fr-de`

Use the **`remark fr-de`** command to set the remarked DE bit of frame relay packets.

Traffic Behavior view

`remark ip-precedence`

Use the **`remark ip-precedence`** command to configure IP precedence remark.

Traffic Behavior view

`remark mpls-exp`

Use the **`remark mpls-exp`** command to configure MPLS EXP value to identify matched packets.

Traffic Behavior view

`remote-address`

Use the **`remote-address`** command to configure IP address of the remote GW.

IKE-Peer view

`remote address`

Use the **`remote address`** command to configure to assign IP address for the peer interface.

Interface view

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remote-ip

Use the **remote-ip** command to configure a remote IP address. The address should be the LSR ID of the remote LSR. As remote peers adopt LSR ID as their transport addresses, the last two remote peers use their LSR ID as their transport addresses for creating TCP connection.

Remote-Peer view

remote-name

Use the **remote-name** command to specify a name for the remote GW.

IKE-Peer view

remotehelp

Use the **remotehelp** command to view the help for the FTP commands.

FTP Client view

remove

Use the **remove** command to delete the specified file from the server as you would with the **delete** command.

SFTP Client view

remove slot

Use the **remove slot** command to have the system do some pre-processing work before removing an interface card.

User view

rename

Use the **rename** command to rename a file on the FTP server from the FTP client.

FTP Client view

rename

Use the **rename** command to change the name of the specified file on the SFTP server.

SFTP Client view

rename

Use the **rename** command to rename a file.

User view

renew

Use the **renew** command to configure the signal values of C bit and D bit.

R2 CAS view

reset

Use the **reset** command to reset the system parameters of RIP.

RIP view

reset acl counter

Use the **reset acl counter**command to clear the statistics of access control list

User View

reset alarm urgent

Use the **reset alarm urgent**wcommand to clear all the stored alarms.

User view

reset l2tp session

Use the **reset l2tp session** command to disconnect a session. When the user calls in, the session can be set up again.

User view

reset l2tp tunnel

Use the **reset l2tp tunnel** command to clear the specified tunnel connection and all sessions on the tunnel.

User view

reset l2tp user

Use the **reset l2tp user** command to disconnect the L2TP connection of the specified user.

User view

reset arp

Use the **reset arp** command to clear the ARP entries in the ARP mapping table.

User view

reset atm

Use the **reset atm** command to clear statistics about all PVCs on the specified ATM interface, excluding statistics about the ATM interface.

User view

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`reset bgp`

Use the **reset bgp** ***peer-address*** command to reset the connection of BGP with a specified peer.

User view

`reset bgp flap-info`

Use the **reset bgp flap-info** command to reset the flap statistics of routes.

User view

`reset bgp group`

Use the **reset bgp group** command to reset the BGP connections of all the members in the specified peer group.

User view

`reset bridge address-table`

Use the **reset bridge** command to clear all the dynamic address entries or the entries of a specified bridge set or a specified interface in the forwarding table.

User view

`reset bridge traffic`

Use the **reset bridge traffic** command to clear the traffic statistics of a bridge set on a interface.

User view

`reset clns statistics`

Use the **reset clns statistics** command to reset statistics information about CLNS flow.

User view

`reset counters controller e1`

Use the **reset counters controller e1** command to clear the controller counter for the CE1/PRI interface.

User view

`reset counters controller t1`

Use the **reset counters controller t1** command to clear the controller counter for the CT1/PRI interface.

User view

`reset counters encrypt`

Use the **reset counters interface encrypt** command to clear the statistics on the encryption card.

User view

`reset counters interface`

Use the **reset counters interface** command to reset the statistics about the port.

User view

`reset counters interface`

Use the **reset counters interface** command to clear statistics about the transmitted and received packets, IP, ARP, and ICMP on the specified interface or all interfaces.

User view

`reset dampening`

Use the **reset dampening** command to clear the dampening information and flap statistics of a route and release the suppression of a suppressed route.

User view

`reset dhcp ip-in-use`

Use the **reset dhcp server ip-in-use** command to clear the DHCP dynamic address binding information, outdated or not.

User view

`reset dhcp relay statistics`

Use the **reset dhcp relay statistics** command to clear the DHCP relay statistics.

User view

`reset dhcp server conflict`

Use the **reset dhcp server conflict** command to clear the statistics about DHCP address collision.

User view

`reset dhcp server statistics`

Use the **reset dhcp server statistics** command to clear the statistics on the DHCP server, including such information as number of DHCP address pools, automatically and manually bound addresses and expired addresses, number of unknown packets, number of DHCP request packets, and number of response packets.

User view

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`reset dlsw bridge-entry`

Use the **reset dlsw bridge-entry** command to clear the entry cache information in the DLSw bridge group.

User view

`reset dlsw circuits`

Use the **reset dlsw circuits** command to clear the DLSw virtual circuit information.

User view

`reset dlsw ethernet-backup circuit`

Use the **reset dlsw ethernet-backup circuit** command to clear information about all circuits that the router and its neighbors have established with the remote peers since DLSw Ethernet redundancy is enabled.

User view

`reset dlsw ethernet-backup map`

Use the **reset dlsw ethernet-backup map** command to clear the MAC address map of the Ethernet switch support feature.

User view

`reset dlsw reachable-cache`

Use the **reset dlsw reachable-cache** command to clear information from the reachable-cache of the DLSw.

User view

`reset dlsw tcp`

Use the **reset dlsw tcp** command to reestablish or delete all connection to all the remote peers.

Use the **reset dlsw tcp** ***ip-address*** command to reestablish a TCP connection or delete the connection to the specified remote peer.

User view

`reset dns dynamic-host`

Use the **reset dns dynamic-host** command to clear the current contents in the domain name cache of the DNS client.

User view

`reset dvpn all`

Use the **reset dvpn all** command to clear all operating information about a specified DVPN domain and to initiate the DVPN domain.

User view

`reset dvpn map`

Use the **reset dvpn map** command to clear a specified map.

User view

`reset dvpn session`

Use the **reset dvpn session** command to clear a specified session.

User view

`reset dvpn statistics`

Use the **reset dvpn statistics** command to clear all the statistics information of a DVPN module.

User view

`reset encrypt-card sa`

Use the **reset encrypt-card sa** command to clear the SAs on the encryption card.

User view

`reset encrypt-card statistics`

Use the **reset encrypt-card statistics** command to clear the statistics during processing of the encryption card.

User view

`reset encrypt-card syslog`

Use the **reset encrypt-card syslog** command to clear all the logging information on the encryption card.

User view

`reset esis statistics`

Use the **reset esis statistics** command to reset statistics information about ES-IS flow.

User view

`reset fcm`

Use the **reset fcm** command to clear the dial-up negotiation failure counter and the timeout disconnection counter for each FCM interface.

User view

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`reset firewall ethernet-frame-filter`

Use the **reset firewall ethernet-frame-filter** command to clear the ACL-based firewall statistics.

User view

`reset firewall-statistics`

Use the **reset firewall-statistics** command to clear the firewall statistics.

User view

`reset fr inarp`

Use the **reset fr inarp** command to clear the address mapping established by inverse ARP.

User view

`reset hwatacs statistics`

Use the **reset hwtacacs statistics** command to clear TACACS+ protocol statistics.reset hwtacacs statistics

User view

`reset igmp group`

Use the **reset igmp group** command to delete the IGMP group joined on the interface. The deletion of the group does not affect its joining again.

User view

`reset ike sa`

Use the **reset ike sa** command to delete the security tunnel set up by IKE.

User view

`reset ip count`

Use the **reset ip count** command to clear information that the IP Accounting retained about IP packets.

User view

`reset ip fast-forwarding cache`

Use the **reset ip fast-forwarding cache** command to reset the unicast fast forwarding cache.

User view

`reset ip multicast-fast-forwarding cache`

Use the **reset ip multicast-fast-forwarding cache** command to clear the multicast fast forwarding cache. However, this command does not release the space occupied by the cache.

User view

`reset ip netstream statistics`

Use the **reset ip netstream statistics** command to age and export all stream statistics to clear the NetStream cache.

User view

`reset ip routing-table`

Use the **reset ip routing-table** command to clear the routing table.

User view

`reset ip statistics`

Use the **reset ip statistics** command to clear the IP statistics information. In some special cases, it is necessary to clear the IP statistics information and perform new statistics.

User view

`reset ipsec sa`

Use the **reset ipsec sa** command to delete an SA already set up (manually or through IKE negotiation). If no parameter (remote, policy, parameters) is specified, all the SA will be deleted.

User view

`reset ipsec statistics`

Use the **reset ipsec statistics** command to clear IPSec message statistics, and set all the statistics to zero.

User view

`reset ipx routing-table statistics`

The **reset ipx routing-table statistics** command is used to clear the statistical information of a specified type of IPX route.

User view

`reset ipx statistics`

Use the **reset ipx statistics** command to clear IPX statistics by the system.

User view

`reset isis all`

Use the **reset isis all** command to reset all the IS-IS data.

User view

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`reset isis peer`

Use the **reset isis peer** command to reset the IS-IS data of specified IS-IS neighbor.

User view

`reset lapb`

Use the **reset lapb statistics** command to clear the statistics about LAPB.

Interface view

`reset loadsharing`

Use the **reset loadsharing** command to reset statistics about unbalanced load sharing for all interfaces or the interfaces related to the equal-cost routes to the specified destination network.

User view

`reset logbuffer`

Use the **reset logbuffer** command to clear information in the log buffer.

User view

`reset mobile-ip binding`

Use the **reset mobile-ip binding** command to remove mobility bindings. With neither the ***ip-address*** argument nor the ***interface-number*** argument specified, all mobility bindings are removed.

User view

`reset mobile-ip mobile-router`

Use the **reset mobile-ip mobile-router agent** command to clear agent information discovered by the MR, MR registration information, and MR statistics.

User view

`reset mobile-ip node-statistics`

Use the **reset mobile-ip node-statistics** command to clear MN statistics.

User view

`reset mobile-ip statistics`

Use the **reset mobile-ip statistics** command to clear all MIP counters.

User view

`reset mobile-ip visitor`

Use the **reset mobile-ip visitor** command to delete information in the visitor table and the pending table on the FA, or with the pending keyword specified to delete information in the pending table only. You can also restrict deletion to one MN or MNs registered on an interface by specifying arguments ***ip-address*** and interface ethernet ***interface-number*** respectively.

User view

`reset mpls cell-transfer interface`

Use the **reset mpls cell-transfer interface** command to reset statistics for the cells received/sent in a packet on an interface in transparent transmission mode.

Any view

`reset mpls statistics`

Use the **reset mpls statistics** command to clear MPLS statistics.

User view

`reset msdp peer`

Use the **reset msdp peer** command to reset TCP connection with the specified MSDP peer, and clear all the statistics of the specified MSDP peer.

User view

`reset msdp sa-cache`

Use the **reset msdp sa-cache** command to clear SMDP SA cache entries.

User view

`reset msdp statistics`

Use the **reset msdp statistics** command to clear statistics of one or more MSDP peers without resetting the MSDP peer.

User view

`reset multicast forwarding-table`

Use the **reset multicast forwarding-table** command to clear MFC forwarding entries or the statistics of MFC forwarding entries.

User view

`reset multicast routing-table`

Use the **reset multicast routing-table** command to clear the route entry in the multicast kernel routing table and remove the corresponding forwarding entry in MFC.

User view

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`reset nat`

Use the **reset nat** command to clear up the mapping tables of address translation in the memory and release all the memory dynamically allocated to store the mapping tables.

User view

`reset ospf`

Use the **reset ospf all** command to reset all the OSPF processes. Use the parameter of statistics to reset statistics about OSPF.

Use the **reset ospf** command to reset the OSPF process, the following results are expected:

User view

`reset pim neighbor`

Use the **reset pim neighbor** command to clear PIM neighbor.

User view

`reset pim routing-table`

Use the **reset pim routing-table** command to clear PIM route entry.

User view

`reset portal`

Use the **reset portal** command to clear the related portal statistics.

User view

`reset pos`

Use the **reset pos** command to clear the counters for POS applications and POS access ports, that is, the information displayed with the **display pos-app** and **display pos-interface** commands.

User view

`reset ppp compression iphc`

Use the **reset ppp compression iphc** command to delete the invalid IP/UDP/RTP header compression or decompression context storage table and clear statistic information of IP/UDP/RTP header compression.

User view

`reset ppp compression stac-lzs`

Use the **reset ppp compression stac-lzs** command to clear statistics about STAC-LZS compression.

User view

`reset pppoe-client`

Use the **reset pppoe-client** command to terminate PPPoE session and re-initiate the connection later.

User view

`reset pppoe-server`

Use the **reset pppoe-server** command to clear PPPoE sessions at the server end.

User view

`reset radius statistics`

Use the **reset radius statistics** command to clear the statistic information related to the RADIUS protocol.

User view

`reset recycle-bin`

Use the **reset recycle-bin** command to delete one or files from the recycle bin completely.

User view

`reset saved-configuration`

Use the **reset saved-configuration** command to delete the configuration file loaded at this startup from the Flash.

User view

`reset stop-accounting-buffer`

Use the **reset stop-accounting-buffer** command to clear the buffered stop-accounting requests that have no responses.

System view

`reset stop-accounting-buffer`

Use the **reset stop-accounting-buffer** command to clear the stop-accounting requests that have no response and are buffered on the router.

User view

`reset stp statistics`

Use the **reset stp statistics** command to clear statistics about the spanning tree.

User view

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`reset tcp statistics`

Use the **`reset tcp statistics`** command to clear TCP traffic statistic information. After the execution of this command, there's no prompt information on the screen, and the existing statistics are cleared.

User view

`reset trapbuffer`

Use the **`reset trapbuffer`** command to clear information in the trap buffer.

User view

`reset udp statistics`

Use the **`reset udp statistics`** command to clear the UDP statistics information. After the execution of this command, there's no prompt information on the screen, and the existing statistics are cleared.

User view

`reset vlan statistics vid`

Use the **`reset vlan statistics vid`** command to clear the VLAN statistics.

User view

`reset voice call-history-record line`

Use the **`reset voice call-history-record line`** command to clear the call history of all voice subscriber lines, or information displayed by the **`display voice call-history-record line`** command.

User view

`reset voice em`

Use the **`reset voice em`** command to reset the call statistics on the digital E&M interface.

User view

`reset voice fax`

Use the **`reset voice fax`** command to reset fax statistics.

User view

`reset voice fax trans-statistics`

Use the **`reset voice fax trans-statistics`** command to reset the statistics for the FAX transform module.

User view

`reset voice ipp`

Use the **`reset voice ipp`** command to reset IPP statistics.

User view

`reset voice r2`

Use the **`reset voice r2`** command to reset the call statistics of R2 signaling.

User view

`reset voice rcv`

Use the **`reset voice rcv`** command to reset RCV statistics.

User view

`reset voice sip`

Use the **`reset voice sip`** command to reset all the statistic information about the SIP client.

User view

`reset voice vcc`

Use the **`reset voice vcc`** command to reset the information related to VCC.

User view

`reset voice voip data-statistics`

Use the **`reset voice voip data-statistic`** command to reset statistics information of voice data.

User view

`reset voice vpp`

Use the **`reset voice vpp`** command to reset VPP statistics.

User view

`reset web java-blocking counter`

Use the **`reset web java-blocking counter`** command to clear the Java blocking statistics information.

User view

`reset web log-buf`

Use the **`reset web log-buf`** command to clear the web filtering log buffer.

User view

`reset web url-filter host counter`

Use the **`reset web url-filter host counter`** command to clear the URL address filtering statistics information.

User view

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`reset web url-filter parameter counter`

Use the **reset web url-filter parameter counter** command to clear the statistics of SQL injection attack protection.

User view

`reset x25`

Use the **reset x25** command to reset statistics about X.25 on the specified interface or to reset the specified X.25 VC.

User view

`reset xot`

For SVC, use the **reset xot** command to initiatively clear an XOT link.

For PVC, use the **reset xot** command to initiatively reset an XOT link.

User view

`restart`

Use the **restart** command to reset the physical interface.

Interface view

`retry`

Use the **retry** command to set the maximum number of probing retries during an auto detect interval.

Detect Group view

`retry`

Use the **retry** command to configure the number of RADIUS request attempts.

RADIUS view

`retry realtime-accounting`

Use the **retry realtime-accounting** command to configure the maximum number of real-time accounting request attempts allowed to have no responses.

RADIUS view

`retry stop-accounting`

Use the **retry stop-accounting** command to configure the maximal retransmission times after stop-accounting request.

RADIUS view

`retry stop-accounting`

Use the **retry stop-accounting** command to enable stop-accounting packet retransmission and configure the maximum number of stop-accounting request attempts.

TACACS+ view

`return`

Use the **return** command to return to user view from any other view.

All views except User view

`reverse`

Use the **reverse** command to configure the inversion mode of line signals.

R2 CAS view

`reverse-rts`

Use the **reverse-rts** command to reverse RTS signal.

Synchronous Serial Interface view

`reverse-tunnel`

Use the **reverse-tunnel** command to enable the reverse tunneling function for an MR.

MR view

`ring-generate`

Use the **ring-generate** command to configure the gateway at the called side to give a ringback tone when in quick start mode.

Voice Subscriber-Line view

`rip`

Use the **rip** command to enable the RIP and enter the RIP view.

System view

`rip authentication-mode`

Use the **rip authentication-mode** command to configure RIP-2 authentication mode and corresponding parameters.

Interface view

`rip input`

Use the **rip input** command to allow an interface to receive RIP packets.

Interface view

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`rip metricin`

Use the **rip metricin** command to configure the additional route metric added to the route when an interface receives RIP packets.

Interface view

`rip metricout`

Use the **rip metricout** ***value*** command to enable RIP to send routes out the interface with an additional route metric added. This command applies to routes both locally learned and learned from other routers.

Use the **rip metricout** ***value*** **all-route** command to enable RIP to send routes out the interface with an additional route metric added. This command applies to locally redistributed routes in addition to those locally learned and learned from other routers.

Interface view

`rip output`

Use the **rip output** command to configure an interface to transmit RIP packets to the external.

Interface view

`rip split-horizon`

Use the **rip split-horizon** command to configure an interface to use split horizon when transmitting RIP packets.

Interface view

`rip triggered`

Use the **rip triggered** command to enable trigger RIP (TRIP).

Interface view

`rip version`

Use the **rip version** command to configure the version of RIP packets on an interface.

Interface view

`rip work`

Use the **rip work** command to enable the running of RIP on an interface.

Interface view

`rlogin`

Use the **rlogin** command to rlogin onto the specified remote host with the specified user name.

User view

`rmdir`

Use the **rmdir** command to delete a specified directory from the FTP server.

FTP Client view

`rmdir`

Use the **rmdir** command to delete the specified directory from the remote SFTP server.

SFTP Client view

`rmdir`

Use the **rmdir** command to delete a directory.

User view

`rmon alarm`

Use the **rmon alarm** command to set an alarm entry. When an exception occurs, the alarm is triggered. The alarm in turn triggers the corresponding event, which can be log, trap, or log-and-trap.

System view

`rmon event`

Use the **rmon event** command to add an event entry.

System view

`rmon history`

Use the **rmon history** command to add a history control entry.

Ethernet Interface view

`rmon prialarm`

Use the **rmon prialarm** command to add an entry to the prialarm table.

System view

`rmon statistics`

Use the **rmon statistics** command to add a statistics entry.

Ethernet Interface view

`root-certificate fingerprint`

Use the **root-certificate fingerprint** command to configure the fingerprint for authenticating the CA root certificate.

PKI Domain view

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route-distinguisher

Use the **route-distinguisher** command to configure RD for an MPLS VPN instance. A vpn-instance cannot run until it is configured with an RD.

MBGP VPN-Instance view

route-policy

Use the **route-policy** command to create a route-policy or a route-policy node and enter the corresponding view.

System view

route-policy

Use the **route-policy** command to configure a route-policy node and enter the route-policy view.

System view

route-tag

Use the **route-tag** command to specify a tag value to identify VPN import route.

OSPF Protocol view

routed-bridge protocol

Use the **routed-bridge protocol** command to enable the support of routed bridge encapsulation to a network protocol.

ATM PVC view

router id

Use the **router id** command to configure the ID of a router running the OSPF protocol.

System view

routing-table limit

Use the **routing-table limit** command to limit the route maximum in a vpn-instance, to avoid too many routes in the ingress interface of the PE router.

MBGP VPN-Instance view

rsa local-key-pair create

Use the **rsa local-key-pair create** command to generate the local RSA host key pair and server key pair.

System view

rsa local-key-pair destroy

Use the **rsa local-key-pair destroy** command to remove all RSA keys on the server (including the host key pair and the server key pair).

System view

rsa peer-public-key

Use the **rsa peer-public-key** command to enter public key view. After that, you may use the **public-key-code begin** command and the **public-key-code end** command to configure the public key of the client.

System view

rsh

Use the **rsh** command to execute a command on a remote host remotely.

User View

rtpq

Use the **rtpq** command to configure to apply Realtime Transport Protocol (RTP) Priority Queuing.

Frame Relay Class view

rule

Use the **rule** command to add a rule in current ACL view.

ACL view

rule

Use the **rule** command to configure the number-substitute rules.

Voice Number-Substitute view

sa authentication-hex

Use the **sa authentication-hex** command to set the SA authentication key manually for the ipsec policy of manual mode.

Manually-Established IPSec Policy view

sa duration

Use the **sa duration** command to specify the ISAKMP Sa duration for an IKE proposal.

IKE Proposal view

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`sa duration`

Use the **`sa duration`** command to set a SA duration of the ipsec policy.

IPSec Policy view
IPSec Policy Template view

`sa encryption-hex`

Use the **`sa encryption-hex`** command to set the SA encryption key manually for the ipsec policy of manual mode.

Manually-Established IPSec Policy view

`sa spi`

Use the **`sa spi`** command to set the SA SPI manually for the ipsec policy of manual mode.

Manually-Established IPSec Policy view

`sa string-key`

Use the **`sa string-key`** command to set the SA parameter manually for the ipsec policy of manual mode.

Manually-Established IPSec Policy view

`save`

Use the **`save`** command to save the current configuration file to the storage device.

Any view

`schedule reboot at`

Use the **`schedule reboot at`** command to enable the scheduled reboot function of the router and schedule the reboot time and date.

User view

`schedule reboot delay`

Use the **`schedule reboot delay`** command to enable scheduled router reboot and set the waiting time.

User view

`scheme`

Use the **`scheme`** command to configure the AAA scheme to be referenced by the current ISP domain.

ISP Domain view

`scramble`

Use the **`scramble`** command to enable an **`undo scramble`** to scramble the payload on ATM OC-3c/STM-1 interface.

ATM Interface view

`scramble`

Use the **`scramble`** command to enable payload scrambling on the ATM E1/T1 interface. This, however, does not affect cell headers.

ATM E1/T1 Interface view

`scramble`

Use the **`scramble`** command to enable scrambling function of ATM E3/T3 interface.

ATM E3/T3 Interface view

`scramble`

Use the **`scramble`** command to enable the POS interface to scramble payload data.

POS Interface view

`screen-length`

Use the **`screen-length`** command to set the number of lines displayed on the terminal screen.

User Interface view

`screen-width`

Use the **`screen-width`** command to set the width of the terminal screen, that is, how many characters can be displayed in one line.

User interface view

`script-string`

Use the **`script-string`** command to configure a Modem script.

System view

`script trigger connect`

Use the **`script trigger connect`** command to configure the Modem script that will be executed once an incoming call connection is established.

User Interface view

`script trigger dial`

Use the **`script trigger dial`** command to configure the Modem script that is used for DCC dialing.

User Interface view

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`script trigger init`

Use the **`script trigger init`** command to configure the Modem script that will be executed when the system is powered on or rebooted.

User Interface view

`script trigger login`

Use the **`script trigger login`** command to configure the Modem script that will be executed when an outgoing call connection is successfully established.

User Interface view

`script trigger logout`

Use the **`script trigger logout`** command to configure the Modem script that is executed when a link is reset.

User-interface view

`sdlc controller`

Use the **`sdlc controller`** command to configure the secondary station address of the SDLC.

Synchronous Serial Interface view

`sdlc mac-map local`

Use the **`sdlc mac-map local`** command to configure the virtual MAC address of the SDLC.

Synchronous Serial Interface view

`sdlc mac-map remote`

Use the **`sdlc mac-map remote`** command to configure the SDLC peer.

Synchronous Serial Interface view

`sdlc max-pdu`

Use the **`sdlc max-pdu`** command to configure the maximum receivable frame length of the SDLC.

Synchronous Serial Interface view

`sdlc max-send-queue`

Use the **`sdlc max-send-queue`** command to configure the queue length sending the SDLC packet.

Synchronous Serial Interface view

`sdlc max-transmission`

Use the **`sdlc max-transmission`** command to configure the SDLC timeout retransmission times.

Synchronous Serial Interface view

`sdlc modulo`

Use the **`sdlc modulo`** command to configure the modulus of the SDLC.

Synchronous Serial Interface view

`sdlc sap-map local`

Use the **`sdlc sap-map local`** command to configure the SAP address on transforming the SDLC into the LLC2.

Synchronous Serial Interface view

`sdlc sap-map remote`

Use the **`sdlc sap-map remote`** command to configure the remote DLSw device SAP address when SDLC is translated into LLC2.

Synchronous Serial Interface view

`sdlc simultaneous`

Use the **`sdlc simultaneous`** command to configure the SDLC data to use the bidirectional transmission mode.

Synchronous Serial Interface view

`sdlc status`

Use the **`sdlc role`** command to configure the SDLC role the device acts.

Synchronous Serial Interface view

`sdlc timer ack`

Use the **`sdlc timer ack`** command to configure the SDLC primary station response waiting time (***`mseconds`***).

Synchronous Serial Interface view

`sdlc timer lifetime`

Use the **`sdlc timer lifetime`** command to configure the SDLC secondary station response waiting time (***`mseconds`***).

Synchronous Serial Interface view

`sdlc timer poll`

Use the **`sdlc timer poll`** command to configure the SDLC poll pause timer.

Synchronous Serial Interface view

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`sdlc window`

Use the **sdlc window** command to configure the length of the SDLC local response window.

Synchronous Serial Interface view

`sdlc xid`

Use the **sdlc xid** command to configure the XID of the SDLC.

Synchronous Serial Interface view

`secondary accounting`

Use the **secondary accounting** command to configure the IP address and port number for the secondary RADIUS accounting server.

RADIUS view

`secondary accounting`

Use the **secondary accounting** command to configure a secondary TACACS accounting server.

TACACS+ view

`secondary authentication`

Use the **secondary authentication** command to configure the IP address and port number of the secondary RADIUS authentication/authorization/accounting server.

RADIUS view

`secondary authentication`

Use the **secondary authentication** command to configure a secondary TACACS authentication server.

TACACS+ view

`secondary authorization`

Use the **secondary authorization** command to configure a secondary TACACS authorization server.

TACACS+ view

`security acl`

Use the **security acl** command to set an access control list to be used by the ipsec policy and specify the data stream protection mode.

IPSec Policy view
IPSec Policy Template view

`security-policy-server`

Use the **security-policy-server** command to specify the IP address of a security policy server.

RADIUS Scheme view

`seizure-ack`

Use the **seizure-ack** command to enable or disable the terminating point to send seizure acknowledgement signal.

R2 CAS view

`select-mode`

Use the **select-mode** command to configure the E1 trunk selection mode.

R2 CAS view

`select-rule search-stop`

Use the **select-rule search-stop** command to configure the maximum number of voice entities found.

Voice Dial Program view

`select-rule type-first`

Use the **select-rule type-first** command to configure the type-first select rules for voice entities.

Voice Dial Program view

`select-rule rule-order`

Use the **select-rule rule-order** command to configure the select rule of voice entities.

Voice Dial Program view

`select-stop`

Use the **select-stop** command to disable the search for voice entities.

Voice Entity view

`send`

Use the **send** command to transfer messages between user interfaces.

Use the **send all** command to send messages to all user interfaces.

Use the **send *number*** command to send messages to the user interface specified by its absolute index.

Use the **send *type-name number*** command to send messages to the user interface specified by its interface type and relative index.

User view

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send-busytone

Use the **send-busytone** command to enable busy tone sending on the FXO interface.

FXO Voice Subscriber-Line view

send-number (in Voice Entity View)

Use the **send-number** command to configure the number sending mode.

POTS Voice Entity view

send-number (in Voice Subscriber-Line View)

Use the **send-number** command to configure the FXS voice subscriber-line to allow the FXS to send called numbers.

FXS Voice Subscriber-Line View

send-ring

Use the **send-ring** command to enable the local end to play ringback tone.

VoIP Voice Entity view

send-trap

Use the **send-trap** command to configure the type of events that trigger trap sending.

HWPing Test Group view

sendat

Use the **sendat** command to manually send AT command to the modem.

Interface (Asynchronous Serial Interface, AUX Port, or AM Interface) view

sendloopcode

Use the **sendloopcode** command to send the remote loopback control code.

CT1/PRI Interface view

sendpacket passroute

Use the **sendpacket passroute** command to enable routing table bypass.

HWPing Test Group view

sendring

Use the **sendring** command to enable or disable the terminating point to send ring-back tone or busy tone signal to the calling party.

R2 CAS view

seq-number

Use the **seq-number** command to enable voice packets transmitted on the local gateway to carry sequence numbers.

Voice Entity view

server type

Use the **server-type** command to configure the RADIUS server type supported by the router.

RADIUS view

service cbr

Use the **service cbr** command to specify PVC service type as constant bit rate (CBR).

PVC view

service data

Use the **service data** command to enable data call service.

Voice Entity view

service modem-callback

Use the **service modem-callback** command to enable the callback function of modems.

System view

service type

Use the **service-type** command to configure a service type for a particular user.

Local User view

service-type ftp

Use the **service-type ftp** command to specify a directory accessible for the FTP user.

Local User view

service-type ppp

Use the **service-type** command to configure the callback attribute and caller number of the PPP user.

Local User view

service ubr

Use the **service ubr** command to specify the service type of PVC as Unspecified Bit Rate (UBR) and specify the related rate parameters.

PVC view

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`service vbr-nrt`

Use the **`service vbr-nrt`** command to specify the service type of PVC as Variable Bit Rate-Non Real Time (VBR-NRT) and specify the related rate parameters.

PVC view

`service vbr-rt`

Use the **`service vbr-rt`** command to set the service type of PVC to Variable Bit Rate- Real Time (VBR-RT) and specify the related rate parameters in the PVC view.

PVC view

`session algorithm-suite`

Use the **`session algorithm-suite`** command to specify the algorithm suite a session uses.

Dvpn-Policy view

`session idle-time`

Use the **`session idle-time`** command to set the L2TP session idle-timeout timer. Upon expiration of this timer, the L2TP session is disconnected.

L2TP Group view

`session idle-timeout`

Use the **`session idle-timeout`** command to set the idle timeout time for sessions.

Dvpn-Policy view

`session keepalive-interval`

Use the **`session keepalive-interval`** command to set the keepalive interval of sessions.

Dvpn-Policy view

`session setup-interval`

Use the **`session setup-interval`** command to set the interval for sending requests to establish a session (Setup request). Setup request packets are sent regularly until the session is established.

Dvpn-Policy view

`set authentication password`

Use the **`set authentication password`** command to set a local authentication password.

User Interface view

`set-overload`

Use the **`set-overload`** command to configure overload flag bit for the current router.

IS-IS view

`sftp`

Use the **`sftp`** command to establish a connection to the remote SFTP server and enter SFTP client view.

System view

`sftp server enable`

Use the **`sftp server enable`** command to enable the secure FTP (SFTP) server.

System view

`sftp source-interface`

Use the **`sftp source-interface`** command to specify a source interface, which must be an existing local interface, for the SFTP client. After that, the IP address of the specified interface is used as the source IP address in each packet sent by the SFTP client.

System view

`sftp source-ip`

Use the **`sftp source-ip`** command to specify a source IP address for the packets sent by the SFTP client. This IP address must be a local IP address.

System view

`sham-link`

Use the **`sham-link`** command to configure a sham link.

OSPF Area view

`shdsl mode`

Use the **`shdsl mode`** command to set the operating mode of the G.SHDSL interface.

ATM (G.SHDSL) Interface view

`shdsl psd`

Use the **`shdsl psd`** command to set PSD of the G.SHDSL interface working as CPE. It is not necessarily the same as the one set at CO.

ATM (G.SHDSL) Interface view

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shdsl rate

Use the **shdsl rate** command to set single-pair interface rate of the SHDSL interface or just select auto-negotiation mode. You can specify maximum line rate.

ATM (G.SHDSL) Interface view

shdsl snr-margin

Use the **shdsl snr-margin** command to set a target margin to signal-to-noise ratio (SNR).

ATM (G.SHDSL) Interface view

shdsl wire

Use the **shdsl wire** command to set the operating mode of the current G.SHDSL interface.

ATM (G. SHDSL) Interface view

shell

Use the **shell** command to enable terminal services on the user interface.

User Interface view

shell priority high

Use the **shell priority high** command to set command execution first.

System view

shutdown

Use the **shutdown** command to shut down the CPOS physical interface.

CPOS Interface view

shutdown

Use the **shutdown** command to shut down the Ethernet port.

Ethernet Port view

shutdown

Use the **shutdown** command to disable the current switching PVC.

Frame Relay Switching view

shutdown

Use the **shutdown** command to shut down the interface.

Interface view

shutdown

Use the **shutdown** command to disable the MSDP peer specified.

MSDP view

shutdown (in Voice Entity View)

Use the **shutdown** command in voice entity view to configure to change the management status of specified voice entity from UP to DOWN.

Voice Entity view

shutdown (in Voice Subscriber-Line View)

Use the **shutdown** command in voice subscriber-line view to configure the voice subscriber-line from UP to DOWN.

Voice Subscriber-Line view

signal-value

Use the **signal-value** command to configure the digital E&M subscriber-line to receive and transmit the ABCD bits of idle signaling and seizure signaling.

Digital E&M Voice Subscriber-Line view

silence-th-span

Use the **silence-th-span** command to set the silence detection parameters that have the system take automatic on-hook action.

FXO Subscriber-Line view

silent-interface

Use the **silent-interface** command to disable a specified interface to transmit IS-IS packet.

IS-IS view

silent interface

Use the **silent-interface** command to disable an interface to transmit OSPF packet.

OSPF view

simultaneous-bindings

Use the **simultaneous-bindings** command to enable simultaneous binding.

MR view

sip

Use the **sip** command to access SIP client view.

Voice view

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sip-call

Use the **sip-call** command to enable globally supplementary service. body style (undo command description goes here)

SIP Client view

sip-comp

Use the **sip-comp** command to configure a SIP compatibility option.

SIP Client view

sip-comp

Use the **sip-comp** command to configure a SIP compatibility option.

SIP Client view

sip-comp agent

Use the **sip-comp agent** command to configure including user-agent field in SIP request.

SIP Client view

sip-domain

Use the **sip-domain** command to configure the domain name of a SIP server.

SIP Client view

sip-id

Use the **sip-id** command to set ID of the local gateway and configure its SIP authentication password.

SIP Client view

sip-server

Use the **sip-server** command to configure address information of SIP proxy server and define call requests that can be accepted.

SIP Client view

selectlanguage

Use the **selectlanguage** command to enable or disable the voice gateway to play the prompt language selection message in the voice caller number process. This command only applies to the voice caller number process.

Voice Access-Number view

slic-gain

Use the **slic-gain** command to configure the output gain of the SLIC chip.

Analog E&M Voice Subscriber-Line view

snmp-agent

Use the **snmp-agent** command to enable SNMP agent.

System view

snmp-agent community

Use the **snmp-agent community** command to configure the read/write attribute of a community, the MIB view that it can access, and the ACL applied to it. The configuration overwrites the old configuration of the community, if there is any.

System view

snmp-agent group

Use the **snmp-agent group** command to configure a new SNMP group, or to map an SNMP user or group to an SNMP view.

System view

snmp-agent local-engineid

Use the **snmp-agent local-engineid** command to configure an engine ID for the local SNMP entity.

System view

snmp-agent mib-view

Use the **snmp-agent mib-view** command to create or update the information about a view.

System view

snmp-agent packet max-size

Use the **snmp-agent packet max-size** command to set the maximum length of the SNMP packets that the agent can receive/send.

System view

snmp-agent sys-info

Use the **snmp-agent sys-info** command to set system information, including system contact, physical location of the node, and SNMP version.

System view

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snmp-agent target-host

Use the **snmp-agent target-host** command to set the destination that receives SNMP notifications.

Use the **snmp-agent target-host** command in conjunction with the **snmp-agent trap enable** command.

System view

snmp-agent trap enable

Use the **snmp-agent trap enable** command to enable the device to send traps and set the trap and notification parameters.

System view

snmp-agent trap enable encrypt-card

Use the **snmp-agent trap enable encrypt-card** command to enable SNMP agent trap function on the encryption card.

System view

snmp-agent trap enable ldp

Use the **snmp-agent trap enable ldp** command to enable Trap function in MPLS LDP creation.

System view

snmp-agent trap enable lsp

Use the **snmp-agent trap enable lsp** command to enable Trap function in MPLS LSP creation.

System view

snmp-agent trap enable mobile-ip

Use the **snmp-agent trap enable mobile-ip** command to enable the MIP SNMP trap function. With the function enabled, a trap packet is sent to the network management software whenever a security violation event occurs.

System view

snmp-agent trap enable ospf

Use the **snmp-agent trap enable ospf** command to enable the TRAP function of OSPF.

System view

snmp-agent trap life

Use the **snmp-agent trap life** command to set the lifetime of traps. The expired traps are discarded without being retained or sent.

System view

snmp-agent trap queue-size

Use the **snmp-agent trap queue-size** command to set the length of the trap queue to the specified host.

System view

snmp-agent trap source

Use the **snmp-agent trap source** command to specify the source address of traps.

System view

snmp-agent usm-user

Use the **snmp-agent usm-user** command to add a new user to an SNMP group.

System view

sot counter keepalive

Use the **sot counter keepalive** command to specify the number of keepalive checks before disconnecting from the peer SOT entity.

System view

sot gather

Use the **sot gather** command to assign the serial interface to an existing SOT protocol group.

Synchronous Serial Interface view

sot group-set

Use the **sot group-set** command to set up a SOT protocol group.

System view

sot peer

Use the **sot peer** command to assign an IP address to the local SOT entity.

System view

sot sdlc broadcast

Use the **sot sdlc broadcast** command to configure the broadcast address FF for the connected SDLC terminals, allowing them to receive broadcast frames.

Synchronous Serial Interface view

sot sdlc controller

Use the **sot sdlc controller** command to configure the SDLC address of a connected terminal.

Synchronous Serial Interface view

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sot sdlc-status primary

Use the **sot sdlc-status primary** command to set the role of the router to SDLC primary node.

Synchronous Serial Interface view

sot sdlc-status secondary

Use the **sot sdlc-status secondary** command to set the role of the router to SDLC secondary node.

Synchronous Serial Interface view

sot send address

Use the **sot send address** command to configure the route for sending SDLC frames to the specified specific terminal.

Synchronous Serial Interface view

sot send all tcp

Use the **send all tcp** command to forward all received SDLC frames to the specified address.

Synchronous Serial Interface view

sot timer keepalive

Use the **sot timer keepalive** command to configure the keepalive timer.

System view

source

Use the **tunnel source** command to specify the source IP address or source interface to be filled in the added IP header at the time of tunnel interface encapsulation.

Tunnel Interface view

source-interface

Use the **source-interface** command to configure the source interface in the transmitted test packets.

HWPing Test Group view

source-ip

Use the **source-ip** command to configure a source IP address for this test.

HWPing Test Group view

source-ip

Use the **source-ip** command to bind a source IP address to the router when it functions as a User Agent (UA).

SIP Client view

source-policy

Use the **source-policy** command to configure a router to filter the multicast data packet received according to source (group) address.

PIM view

source-port

Use the **source-port** command to configure a source port number for this test.

HWPing Test Group view

special-character

Use the **special-character** command to configure the supported special characters during register signal exchange.

R2 CAS view

special-service

Use the **special-service** command to enable or disable the special-service numbers.

Voice Dial Program view

speed

Use the **speed** command to set the operating speed of the Ethernet interface.

Ethernet Interface view

speed

Use the **speed** command to configure the rate of the port.

Ethernet Port view

speed

Use the **speed** command to set the transmission rate on the user interface.

User Interface view

spf-delay-interval

Use the **spf-delay-interval** command to configure the interval for actively releasing CPU in the SPF calculation.

IS-IS view

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spf-schedule-interval

Use the **spf-schedule-interval** command to configure the route calculation interval of OSPF.

OSPF view

spf-slice-size

Use the **spf-slice-size** command to configure whether to set slice and the duration time each time when IS-IS performs SPF route calculation.

IS-IS view

spt-switch-threshold

Use the **spt-switch-threshold** command to set the packet rate threshold when the PIM leaf router switches from the RPT to the SPT.

PIM view

ssh authentication-type default

Use the **ssh authentication-type default** command to specify a default authentication mode for SSH users.

System view

ssh client assign rsa-key

Use the **ssh client assign rsa-key** command to associate an SSH server with the name assigned to its public key. When connecting to this server, the client verifies its trustworthiness based on this association.

System view

ssh client first-time enable

Use the **ssh client first-time enable** command to enable the SSH client to perform first-time authentication on SSH servers.

System view

ssh server authentication-retries

Use the **ssh server authentication-retries** command to set the number of SSH connection authentication retries, which is validated at next login.

System view

ssh server compatible_ssh1x enable

Use the **ssh server compatible_ssh1x enable** command to enable the SSH server to work with SSH1.X clients.

System view

ssh server rekey-interval

Use the **ssh server rekey-interval** command to set the interval for updating the server key.

System view

ssh-server source-interface

Use the **ssh-server source-interface** command to specify a source interface, which must be an existing local interface, for the SSH server. After that, the IP address of the specified interface is used as the source IP address in each packet sent by the SSH server.

System view

ssh-server source-ip

Use the **ssh-server source-ip** command to specify a source IP address for the packets sent by the SSH server. This IP address must be a local IP address.

System view

ssh server timeout

Use the **ssh server timeout** command to set a timeout for SSH connection authentication at login. It becomes valid at next login.

System view

ssh user

Use the **ssh user** command to create an SSH user.

System view

ssh user assign

Use the **ssh user assign** command to assign one existing public key to a user. If a key exists, the new assignment overrides.

System view

ssh user authentication-type

Use the **ssh user authentication-type** command to create an SSH user and specify an authentication mode for it.

System view

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`ssh user service-type`

Use the **ssh user service-type** command to specify service type for a user.

System View

`ssh2`

Use the **ssh2** command to initiate a connection to the specified SSH server, and specify the preferred key exchange algorithm, encryption algorithm and HMAC algorithm between the client and the server.

System view

`ssh2 source-interface`

Use the **ssh2 source-interface** command to specify a source interface, which must be an existing local interface, for the SSH client. After that, the IP address of the specified interface is used as the source IP address in each packet sent by the SSH client.

System view

`ssh2 source-ip`

Use the **ssh2 source-ip** command to specify a source IP address for the packets sent by the SSH client. This IP address must be a local IP address.

System view

`standby bandwidth`

Use the **standby bandwidth** command to configure the actual bandwidth that the main interface uses in backup load sharing.

Interface view

`standby detect-group`

Use the **standby detect-group** command to implement interface backup using the auto detect function.

Interface view

`standby interface`

Use the **standby interface** command to specify a physical interface to back up the interface.

Interface view

`standby routing-group`

Use the **standby routing-group** command to apply a dynamic routing standby group on the secondary interface.

Dial Interface view

`standby routing-rule`

Use the **standby routing-rule** command to create a dynamic routing standby group and assign a monitored network segment to it.

System view

`standby threshold`

Use the **standby threshold** command to configure backup load sharing on an interface or logical channel.

Interface view

`standby timer delay`

Use the **standby timer delay** command to set failover and fallback delays on the interface, avoiding frequent switchover caused by instability of interface state.

Interface view

`standby timer flow-check`

Use the **standby timer flow-check** command to configure the interval for checking the traffic size on the main interface.

Interface view

`standby timer routing-disable`

Use the **standby timer routing-disable** command to specify a delay for the secondary link to be disconnected after the primary link goes up to avoid route oscillation.

Dial Interface view

`start l2tp`

Use the **start l2tp** command to specify conditions triggering the local end to place calls when it works as L2TP LAC.

L2TP Group view

`start l2tp tunnel`

Use the **start l2tp tunnel** command to enable the L2TP LAC to start L2TP tunnel connection.

L2TP Group view

`start script`

Use the **start-script** command to configure executing the specified Modem script on an interface.

User view

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`startup saved-configuration`

Use the **startup saved-configuration** command to specify the configuration file used at next startup.

User view

`state`

Use the **state** command to configure the state of the current ISP domain or local user.

ISP Domain view
Local User view

`state`

Use the **state** command to clarify the name of the state where an entity lies.

PKI Entity view

`state`

Use the **state** command to configure the state of a RADIUS server.

RADIUS view

`static-bind ip-address`

Use the **static-bind ip-address** command to configure an IP address for a static address binding in DHCP address pool view.

DHCP Address Pool view

`static-bind { mac address | client identifier }`

Use the **static-bind** { **mac-address** | **client-identifier** } command to configure a MAC address or client identifier for a static binding.

DHCP Address Pool view

`static-lsp egress`

Use the **static-lsp egress** command to configure a static LSP for an egress LSR.

MPLS view

`static-lsp egress l2vpn`

Use the **static-lsp egress l2vpn** command to configure a static LSP used in L2VPN for egress LSR.

MPLS view

`static-lsp ingress`

Use the **static-lsp ingress** command to configure a static LSP for the ingress LSR.

MPLS view

`static-lsp ingress l2vpn`

Use the **static-lsp egress l2vpn** command to configure a static LSP used in L2VPN for ingress LSR.

MPLS view

`static-lsp transit`

Use the **static-lsp transit** command to configure a static LSP for a transit LSR.

MPLS view

`static-lsp transit l2vpn`

Use the **static-lsp transit** command to configure a static LSP used in L2VPN for transit LSR.

MPLS view

`static-rp`

Use the **static-rp** command to configure static RP.

PIM view

`static-rpf-peer`

Use the **static-rpf-peer** command to configure static RPF peer.

MSDP view

`statistics {interval interval | max-group number }`

Use the **statistics** { interval ***interval*** | max-group ***number*** } command to configure the statistics interval and the maximum number of the groups of the retained statistics information according to the configuration.

HWPing Test Group view

`statistics keep-time`

Use the **statistics keep-time** command to configure the retaining time of the test statistics.

HWPing Test Group view

`stop-accounting-buffer enable`

Use the **stop-accounting-buffer enable** command to enable the router to buffer the stop-accounting requests that have no responses.

RADIUS view

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stopbits

Use the **stopbits** command to set the stop bits on the user interface.

User Interface view

stub

Use the **stub** command to configure the type of an OSPF area as the STUB area.

OSPF Area view

subscriber-line

Use the **subscriber-line** command to enter the voice subscriber-line view.

Voice view

subscriber-line

Use the **subscriber-line** command to enter FXS, FXO, analog E&M, or digital E1/T1 voice subscriber-line view.

Any Voice view except for Voice Entity view

substitute

Use the **substitute** command to bind the calling/called number-substitute list to the voice subscriber-line or voice entity.

Voice Entity View
Voice Subscriber-Line view

substitute incoming-call

Use the **substitute incoming-call** command to bind the calling/called numbers of the incoming calls from the network side to the number-substitute list.

Voice Dial Program view

substitute outgoing-call

Use the **substitute outgoing-call** command to bind the calling/called numbers of the outgoing calls from the network side to the number-substitute list.

Voice Dial Program view

summary

Use the **summary** command to configure automatic aggregation of sub-network routes.

BGP Multicast view
BGP Unicast view
VPN Instance view

summary

Use the **summary** command to configure IS-IS route summary.

IS-IS view

summary

Use the **summary** command to enable RIP-2 automatic route summarization.

RIP view

super

Use the **super** command to switch the current user level to a specified user level, or the command level that the user can access.

User view

super authentication mode

Use the **super authentication-mode** command to configure authentication mode for the super command, which can be configured to the following four modes:

User Interface view

super password

Use the **super password** command to set the password needed to switch from a lower user level to a higher one.

System view

sync-clock enable

Use the **sync-clock enable** command to enable clock synchronization between the router and the OSM board.

GigabitEthernet Interface view

sync-clock interval

Use the **sync-clock interval** command to set clock synchronization interval between the router and the OSM board.

GigabitEthernet Interface view

synchronize arp

Use the **synchronize arp** command to enable authorized ARP for global DHCP address pools.

Global DHCP Address Pool view

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sysname

Use the **sysname** command to set the name of the router.

System view

system-view

Use the **system-view** command to enter system view from the current user view.

User view

t1 bert

Use the **t1 bert** command to start a BERT test on the specified T1 line on the CT3 interface.

CT3 Interface view

t1 channel-set

Use the **t1 channel-set** command to bundle timeslots on the T1 channel.

CPOS Interface view

t1 channel set

Use the **t1 channel-set** command to bundle the timeslots of a T1 line.

CT3 Interface view

t1 sendloopcode

Use the **t1 sendloopcode** command to set the loopback mode of the specified far-end T1 line.

CT3 Interface view

t1 set clock

Use the **t1 set clock** command to configure the clock mode of T1 channel.

CPOS Interface view

t1 set clock

Use the **t1 set clock** command to set the clock mode for a T1 line on the CT3 interface.

CT3 Interface view

t1 set fdl

Use the **t1 set fdl** command to set the behavior of the specified T1 line on the FDL in ESF framing.

CT3 Interface view

t1 set frame-format

Use the **t1 set frame-format** command to set a frame format for T1 channel.

CPOS Interface view

t1 set frame-format

Use the **t1 set frame-format** command to configure the frame format of T1 line.

CT3 Interface view

t1 set loopback

Use the **t1 set loopback** command to configure the loopback mode of the T1 channel.

CPOS Interface view

t1 set loopback

Use the **t1 set loopback** command to set the loopback mode of a T1 line on the T3 interface.

CT3 Interface view

t1 show

Use the **t1 show** command to view the line state of the specified T1 line on the CT3 interface.

CT3 Interface view

t1 shutdown

Use the **t1 shutdown** command to shut down a T1 channel.

CPOS Interface view

t1 shutdown

Use the **t1 shutdown** command to shut down a T1 line on the CT3 interface.

CT3 Interface view

t1 unframed

Use the **t1 unframed** command to set a T1 channel on the CPOS interface to unframed mode.

CPOS Interface view

t1 unframed

Use the **t1 unframed** command to set a T1 line on the CT3 interface to work in unframed mode (T1 mode).

CT3 Interface view

tcp mss

Use the **tcp mss** command to designate a value as a threshold for TCP packets to be fragmented.

Interface view

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`tcp timer fin-timeout`

Use the **`tcp timer fin-timeout`** command to configure the TCP finwait timer.

System view

`tcp timer syn-timeout`

Use the **`tcp timer syn-timeout`** command to configure the TCP synwait timer.

System view

`tcp window`

Use the **`tcp window`** command to configure the size of the transceiving buffer of the connection-oriented Socket.

System view

`telnet`

Use the **`telnet`** command to telnet from this router to another device.

User view

`telnet-server source-interface`

Use the **`ftp-server source-interface`** command to specify a source interface, which must be an existing local interface, for the Telnet server. After that, the IP address of the specified interface is used as the source IP address in each packet sent by the Telnet server.

System view

`telnet-server source-ip`

Use the **`telnet-server source-ip`** command to specify a source IP address for the packets sent by the Telnet server. This IP address must be a local IP address.

System view

`telnet source-interface`

Use the **`telnet source-interface`** command to telnet from the main IP address of the specified interface to the destination IP address.

User view
System view

`telnet source-ip`

Use the **`telnet source-ip`** command to telnet from the specified source IP address to the specified destination IP address.

User view
System view

`terminal debugging`

Use the **`terminal debugging`** command to have the debugging information displayed on the user terminal.

User view

`terminal logging`

Use the **`terminal logging`** command to have the log information displayed on the terminal.

User view

`terminal monitor`

Use the **`terminal monitor`** command to have the terminal display debugging /log/trap information sent from the info-center.

User view

`terminal trapping`

Use the **`terminal trapping`**command to have the terminal display trap information.

User view

`terminal type`

Use the **`terminal type`** command to set the terminal type.

User Interface view

`terminator`

Use the **`terminator`** command to configure a special character string as the terminator of a telephone number whose length is variable.

Voice Dial Program view

`test-enable`

Use the **`test-enable`** command to execute an HWPing test.

HWPing Test Group view

`test-failtimes`

Use the **`test-failtimes`** command to configure the number of consecutive test failures allowed before a trap is sent to the NMS.

HWPing Test Group view

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`test-time begin`

Use the **test-time begin** command to configure the start time and the lasting time of a test.

HWPing Test Group view

`test-type`

Use the **test-type** command to configure the type of the test.

HWPing Test Group view

`tftp`

Use the **tftp** command to upload or download a file through TFTP.

User view

`tftp host source-interface`

Use the **tftp *host* source-interface** command to specify the source interface that the TFTP client uses when accessing the specified TFTP server.

User view

`tftp host source-ip`

Use the **tftp *host* source-ip** command to specify the source IP address that the TFTP client uses when accessing the specified TFTP server. This source IP address must be a local address.

User view

`tftp hostname vpn-instance`

Use the **tftp hostname vpn-instance** to adopt VPN instance mode to access TFTP server and upload and download files.

User view

`tftp-server acl`

Use the **tftp-server acl** command to reference an ACL to control access to the TFTP server.

System view

`tftp-server directory`

Use the **tftp-server directory** command to configure the directory TFTP Client can access.

System view

`tftp-server enable`

Use the **tftp-server enable** command to enable TFTP Server.

System view

`tftp-server max-users`

Use the **tftp-server max-users** command to maximum number of concurrent users that are allowed to access TFTP server.

System view

`tftp-server retry-times`

Use the **tftp-server retry-times** command to configure maximum number of retry times for TFTP server timeout retransmission.

System view

`tftp-server timeout`

Use the **tftp-server timeout** command to configure UDP packet response timeout time for TFTP server.

System view

`tftp-server update`

Use the **tftp-server update** command to set the file update mode that the FTP server uses while receiving data.

System view

`tftp source-interface`

Use the **ftp source-interface** command to specify a source interface, which must be an existing local interface, for the TFTP client.

System view

`tftp source-ip`

Use the **ftp source-ip** command to specify a source IP address for the packets sent by the TFTP client.

System view

`time-out`

Use the **time-out** command to configure the time waiting for a DPD acknowledgement.

DPD Structure view

`time-range`

Use the **time-range** command to specify a time range.

System view

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timeout

Use the **timeout** command to configure a timeout time for a test.

HWPing Test Group view

timer (Digital E&M)

Use the **timer** command to configure the timeout values of the signals in the digital E&M signaling.

Digital E&M Voice Subscriber-Line view

timer configuration

Use the **timer configuration** command to set the interval to send ISH packets.

ES-IS view

timer-dial-interval

Use the **timer dial-interval** command to configure the timer that the system waits for a subscriber to dial the next digit.

Voice Subscriber-Line view

timer dl (R2)

Use the **timer dl** command to configure the timeout value of line signals of R2 signaling.

R2 CAS view

timer dtmf (R2)

Use the **timer dtmf** command to configure the time interval for sending DTMF signals.

R2 CAS view

timer first-dial

Use the **timer first-dial** command to configure the timer that the system waiting for a subscriber to dial the first digit.

Voice Subscriber-Line view

timer hold

Use the **timer hold** command to set the polling interval.

Interface view

timer hold

Use the **timer hold** command to configure the polling timer at the DTE side.

Interface view

timer hold

Use the **timer hold** command to set the timer to send keepalive packet.

Serial Interface view

timer holding

Use the **timer holding** command to set the holding time of the information ISH packets sent carry.

ES-IS view

timer keep-alive hold

Use the **timer keep-alive hold** command to configure the Keepalive and Holdtime timer of BGP.

BGP Unicast view
BGP Multicast view
VPNv4 view
VPN Instance view

timer loop

Use the **timer loop** command to set the auto detect interval, that is, the frequency for auto detect.

Detect Group view

timer lsp-max-age

Use the **timer lsp-max-age** command to configure the maximum lifetime of an LSP generated by the current router.

IS-IS view

timer-lsp-refresh

Use the **timer lsp-refresh** command to configure the refresh interval of LSP.

IS-IS view

timer quiet

Use the **timer quiet** command to set the duration that the primary server must wait before it can resume the active state.

RADIUS view

timer quiet

Use the **timer quiet** command to set the duration that a primary server must wait before it can resume the active state.

TACACS+ view

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`timer realtime-accounting`

tUse the **`timer realtime-accounting`** command to configure a real-time accounting interval.

RADIUS view

`timer realtime-accounting`

Use the **`timer realtime-accounting`** command to configure a real-time accounting interval.

TACACS+ view

`timer register-complete (R2)`

Use the **`timer register-complete`** command to configure the timeout value for register signals of R2 signaling.

R2 CAS view

`timer register-pulse (R2)`

Use the **`timer pulse`** command to configure the persistence time of the register pulse signal of R2 signaling (A3, A4 and A6, etc.).

R2 CAS view

`timer response-timeout`

Use the **`timer response-timeout`** command to configure the RADIUS server response timer.

RADIUS view

`timer response-timeout`

Use the **`timer response-timeout`** command to set the response timeout timer of the TACACS server.

TACACS+ view

`timer retry`

Use the **`timer retry`** command to configure the value of connection request re-try period.

MSDP view

`timer ring (R2)`

Use the **`timer ring`** command to configure the maximum time range before the signal tone of R2 signaling is sent.

R2 CAS view

`timer ring-back`

Use the **`timer ring-back`** command to configure the maximum duration for the system to send the ringback tone.

Voice Subscriber-Line view

`timer spf`

Use the **`timer spf`** command to configure the interval for the SPF calculation.

IS-IS view

`timer wait`

Use the **`timer wait`** command to set a timeout period for a probing attempt.

Detect Group view

`timer wait-digit`

Use the **`timer wait-digit`** command to configure the maximum time duration that the system waits for a digit.

Voice Subscriber-Line view

`timers`

Use the **`timers`** command to modify value for the three timers, Period update, Timeout and Garbage-collection, of RIP.

RIP view

`timeslot-set`

Use the **`timeslot-set`** command to configure the timeslot set to perform R2 signaling and digital E&M signaling configurations.

CE1/PRI Interface view

`timestamp`

Use the **`timestamp`** command to enable the local end to send voice packets with timestamps.

Voice Entity view

`tos`

Use the **`tos`** command to assign a value to the ToS field in the header of HWPing test packets.

HWPing Test Group view

`trace interval`

Use the **`trace interval`** command to configure the interval for information recording in the debugging process, that is, the number of voice packets upon the pass of which a record will be made.

Voice view

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`tracert`

Use the **tracert** command to trace the gateways by which a packet passes from source to destination for network connectivity test and fault location.

Any view

`tracert clns`

Use the **tracert clns** command to track the nodes along the route that leads to a specified destination.

Any view

`traffic behavior`

Use the **traffic behavior** command you can define a traffic behavior and enter the behavior view.

System view

`traffic classifier`

Use the **traffic classifier** command to define a class and enter the class view.

System view

`traffic-policy`

Use the **traffic-policy** command to associate a sub-policy to the behavior.

Traffic Behavior view

`traffic-shaping adaptation`

Use the **traffic-shaping adaptation** command to enable the adaptive traffic shaping function of frame relay.

Frame Relay Class view

`traffic-share-across-interface`

Use the **traffic-share-across-interface** command to enable RIP to distribute traffic equally on multiple interfaces using equal-cost routes.

RIP Protocol view
RIP MBGP Address Family view

`transform`

Use the **transform** command to set a security protocol used by a proposal.

IPSec Proposal view

`translate ip`

Use the **translate ip** command to configure an X2T forwarding route from IP network to X.25 network.

System view

`translate x25`

Use the **translate x25** command to configure an X2T forwarding route from X.25 network to IP network.

System view

`transmit gain`

Use the **transmit gain** command to configure the voice subscriber-line output end gain value.

Voice Subscriber-Line view

`transmit-priority`

Use the **transmit-priority** command to assign a transmit priority to the ATM PVC associated with the UBR, VBR-T, or VBR-NRT service. The higher priority PVC is allocated bandwidth before any other PVCs.

ATM PVC view

`trunk-direction`

Use the **trunk-direction** command to configure the E1 trunk direction.

R2 CAS view

`trunk-id`

Use the **trunk-id** command to configure the number that the local end dials to call the PSTN side in FRF.11 trunk mode.

Voice Entity view

`ts`

Use the **ts** command to maintain the trunk circuit of the specified timeslot.

R2 CAS view

`ttl`

Use the **ttl** command to configure TTL of ICMP test packets.

HWPing Test Group view

`ttl expiration`

Use the **ttl expiration** command to configure the router to forward ICMP responses by local IP routing when the MPLS TTL expires.

MPLS view

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`ttl propagate`

Use the **`ttl propagate`** command to enable IP TTL duplication of MPLS.

MPLS view

`tunnel authentication`

Use the **`l2tp tunnel authentication`** command to enable L2TP tunnel authentication.

L2TP Group view

`tunnel avp-hidden`

Use the **`tunnel avp-hidden`** command to configure Attribute Value Pair (AVP) data to be transmitted in hidden format.

L2TP Group view

`tunnel flow-control`

Use the **`tunnel flow-control`** command to enable L2TP tunnel flow-control.

L2TP Group view

`tunnel local`

Use the **`tunnel local`** command to set the local address of an ipsec policy.

Manually-Established IPSec Policy view

`tunnel keepstanding`

Use the **`tunnel keepstanding`** command to enable the tunnel-hold function of L2TP, preventing the tunnel from being disconnected when no session is present.

L2TP Group view

`tunnel name`

Use the **`tunnel name`** command to specify local name of a tunnel.

L2TP Group view

`tunnel-on`

Use the **`tunnel-on`** command to enable tunnel function.

VoIP Voice Entity view

`tunnel password`

Use the **`tunnel password`** command to specify a password for tunnel authentication.

L2TP Group view

`tunnel-protocol dvpn`

Use the **`tunnel-protocol udp dvpn`** command to encapsulate a tunnel interface with UDP DVPN.

Tunnel Interface view

`tunnel-protocol gre`

Use the **`tunnel mode`** command to set encapsulation mode of the tunnel interface to GRE.

Tunnel interface view

`tunnel remote`

Use the **`tunnel remote`** command to set the remote address of an ipsec policy.

Manually-Established IPSec Policy view

`tunnel timer hello`

Use the **`tunnel timer hello`** command to set a Hello packet forwarding interval.

L2TP Group view

`type`

Use the **`type`** command to configure the analog E&M subscriber-line signal type.

Voice Subscriber-Line view

`type-number`

Use the **`type-number`** command to configure the calling/called number types of voice entities.

Voice Entity view

`udp-helper enable`

Use the **`udp-helper enable`** command to enable UDP Helper.

System view

`udp-helper port`

Use the **`udp-helper port`** command to specify the UDP port number in the UDP broadcasts to be forwarded.

System view

`udp-helper server`

Use the **`udp-helper server`** command to configure the destination server to which the UDP broadcasts received on the interface are forwarded.

Ethernet Interface view

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undelete

Use the **undelete** command to restore a file from the recycle bin.

User view

undo schedule reboot

Use the **undo schedule reboot** command to cancel the configuration of the schedule reboot terminal service.

User view

undo synchronization

Use the **undo synchronization** command to remove the synchronization between BGP and IBGP.

BGP view
VPN Instance view

upgrade

Use the **upgrade** command to upgrade the Boot ROM program, pico-code or the logic.

System view

upgrade

Use the **upgrade** command to upgrade the Boot ROM.

User view

upgrade flash

Use the **upgrade flash** command to upgrade the software of the card. To have the upgraded software take effect, reboot the router.

ATM (ADSL) Interface view

use encrypt-card

Use the **use encrypt-card** command to specify the SA proposal uses the encryption card at a designated slot.

Card SA Proposal view

user

Use the **user** command to register an FTP user.

FTP Client view

user

Use the **user** command to configure username, password and corresponding display mode in SIP client view and/or voice entity view. The configurations of the cnonce and realm authentication information fields are optional, which can be used for authentication.

SIP Client view
Voice Entity view

user-interface

Use the **user-interface** command to enter single-user interface view or multi-user interface view.

System view

user-name-format

Use the **user-name-format** command to configure the format of the username to be sent to a RADIUS server.

RADIUS view

user-name-format

Use the **user-name-format** command to configure the username format sent to the TACACS server.

TACACS+ view

user privilege

Use the **user privilege** command to configure the command level that the login users on the current user interface can access.

User Interface view

username

Use the **username** command to configure a name used for logging onto the FTP server.

HWPing Test Group view

using (CE1/PRI Interface)

Use the **using** command to configure the operating mode of the CE1/PRI interface.

CE1/PRI Interface view

using (CE3 Interface)

Use the **using** command to configure the operating mode of a CE3 interface.

CE3 Interface view

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using (CT3 Interface)

Use the **using** command to configure the operating mode of a CT3 interface.

CT3 Interface view

vad-on

Use the **vad-on** command to enable silence detection function.

Voice Entity view

validate source address

Use the **validate-source-address** command to enable checking of the source address of a RIP packet upon reception.

RIP Protocol view
RIP MBGP Address Family view

verbose

Use the **verbose** command to enable the verbose function to view information from the FTP server.

FTP Client view

vfs check check-method discard

Use the **vfs check check-method discard** command to specify the file discarding method to be the file system check method.

System view

vfs check check-method discard auto

Use the **vfs check check-method discard auto** command to specify to discard the contents of corrupted files and then recycle the corresponding storage space automatically.

System view

vfs check check-method fix

Use the **vfs check check-method fix** command to set the file check method to automatic file fixing.

System view

vfs check file-system

Use the **vfs check file-system** command to check the file system. At present, the system can check corrupted files and perform operations such as file fixing/discarding and space recycling.

User view

vi-card busy-tone-detect

Use the **vi-card busy-tone-detect** command to configure busy tone detection method on FXO subscriber-line.

Voice view

vi-card cptone-custom

Use the **vi-card cptone-custom** command to set the prompt tone parameters of the system.

Voice view

vi-card custom-toneparam

Use the **vi-card custom-toneparam** command to save DSP parameters and customize busy tone detection parameters on the FXO interface.

Voice view

vi-card reboot

Use the **vi-card reboot** command to reboot a voice card.

Voice view

virtualbaudrate

Use the **virtualbaudrate** command to set a virtual baudrate for the DTE interface.

Synchronous Serial Interface view

vlan-type dot1q vid

Use the **vlan-type dot1q** command to set the encapsulation types on the sub-interface.

Interface view

vlink-peer

Use the **vlink-peer** command to create and configure a virtual link.

OSPF Area view

vofr

Use the **vofr** command to enable VoFR operation mode for a DLCI.

DLCI view

vofr frf11-timer

Use the **vofr frf11-timer** command to configure the interval of Trunk Wait timer in FRF.11 trunk mode.

Voice view

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vofr jitter-buffer

Use the **vofr jitter-buffer** command to configure a jitter buffer length.

Voice view

voice bandwidth

Use the **voice bandwidth** command to configure maximum bandwidth for voice calls.

Frame Relay Class view

voice-config

Use the **voice-config** command to enable the DHCP server to send option 184 and suboptions of 184 when it assigns addresses from the global address pool.

DHCP Address Pool view

voice-setup

Use the **voice-setup** command to enter voice view and enable voice services.

System view

voip call-start

Use the **voip call-start** command to configure a call initialization mode for the called GW.

Voice view

voip calledtunnel

Use the **voip calledtunnel enable** command to enable the tunnel function on the called gateway.

Voice view

voip h323-conf tcs-t38

Use the **voip h323-conf tcs-t38** command to enable the voice gateway to include the T.38 capability description in its capability set when it is in H.323 slow-start mode.

Voice view

voip h323-descriptor

Use the **voip h323-descriptor** command to configure the description character string of the voice gateway H.323.

Voice view

voip timer

Use the **voip timer** command to set the VoIP-to-POTS timer, or the delay waiting for switching from VoIP entity to backup POTS entity after a VoIP call is failed.

Voice view

vpinstance

Use the **vpninstance** command to specify a VPN instance.

HWPing Test Group view

vpn-instance-capability simple

Use the **routing-table limit** command to configure a router as Multi-VPN-Instance CE.

OSPF Protocol view

vpn-target

Use the **vpn-target** command to create vpn-target extended community for vpn-instance.

MBGP VPN-Instance view

vqa data-statistic

Use the **vqa data-statistic** command to enable counting of voice data.

Voice view

vqa dscp

Use the **vqa dscp** command to set the global DSCP value in the ToS field in the IP packets that carry the RTP stream or voice signaling.

Voice view

vqa dsp-monitor

Use the **vqa dsp-monitor** command to set duration for DSP buffer data monitoring.

Voice view

vqa jitter-buffer

Use the **vqa jitter-buffer** command to configure jitter buffer depth.

Voice view

vqa performance

Use the **vqa performance** command to configure the sending or receiving process of voice data to fast or normal forwarding process.

Voice view

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vrbd

Use the **vrbd** command to view software version details, including product software version and the matched platform software version.

Any view

vrrp authentication-mode

Use the **vrrp authentication-mode** command to configure authentication mode and authentication key for the VRRP standby groups on the interface.

Ethernet Interface view
Bridge Template view

vrrp ping-enable

Use the **vrrp ping-enable** command to enable users to ping the virtual IP addresses of standby groups.

System view
Bridge Template view

vrrp un-check ttl

Use the **vrrp un-check ttl** command to disable the VRRP standby group to check the TTL field in VRRP packets.

Ethernet Interface view
Bridge Template view

vrrp vrid preempt-mode

Use the **vrrp vrid preempt-mode** command to enable preemption on the router and configure its preemption delay in the specified standby group.

Interface view
bridge Template view

vrrp vrid priority

Use the **vrrp vrid priority** command to configure the priority of the router in the specified standby group.

Ethernet Interface view
Bridge Template view

vrrp vrid timer advertise

Use the **vrrp vrid timer advertise** command to configure the Adver_Timer of the specified standby group.

Ethernet Interface view
Bridge Template view

vrrp vrid track

Use the **vrrp vrid track** command to configure the interface to be tracked.

Ethernet Interface view
Bridge Template view

vrrp vrid track detect-group

Use the **vrrp vrid** command to implement VRRP using the auto detect function.

Ethernet Interface view

vrrp vrid virtual-ip

Use the **vrrp vrid virtual-ip** command to create a standby group the first time that you add a virtual IP address or add a virtual IP address to it after that. Each standby group can accommodate up to 16 virtual IP addresses.

Ethernet Interface view
Bridge Template view

web java-blocking acl-number

Use the **web java-blocking acl-number** command to enable ACL-based Java blocking ACL function.

System view

web java-blocking enable

Use the **web java-blocking enable** command to enable Java blocking.

System view

web java-blocking extension add

Use the **web java-blocking extension add** command to add extension name of Java request packets to be blocked.

System view

web java-blocking extension add-default

Use the the **web java-blocking extension add-default** command to add system default Java blocking keywords after you have defined them.

System view

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web java-blocking extension delete

Use the **web java-blocking extension delete** command to delete a previously added extension name of Java request packets.

System view

web java-blocking extension delete-all

Use the **web java-blocking extension delete-all** command to delete all Java blocking keywords previously added.

System view

web java-blocking extension load-file

Use the **web java-blocking extension load-file** command to load a Java blocking filter file.

System view

web java-blocking extension save-file

Use the **web java-blocking extension save-file** command save a Java blocking filter file.

System view

web log enable

Use the **web log enable** command to enable web logging and create a logging timer.

System view

web log timer

Use the **web log timer** command to configure the timeout time of the logging timer.

System view

web url-filter host acl-number

Use the **web url-filter host acl-number** command to configure the firewall to filter the web requests whose destination URL address is an IP address by using an ACL.

System view

web url-filter host add

Use the **web url-filter host add** command to add web filtering address, and set the filtering operation.

System view

web url-filter host default

Use the **web url-filter host default** command to permit or deny packets that do not match with the URL addresses configured by the administrator.

System view

web url-filter host delete

Use the **web url-filter host delete** command to a URL address filtering entry previously added.

System view

web url-filter host delete-all

Use the **web url-filter host delete-all** command to delete all URL address filtering entries.

System view

web url-filter host enable

Use the **web url-filter host enable** command to enable URL address filtering.

System view

web url-filter host ip-address

Use the **web url-filter host ip-address** command to configure whether to permit a web request whose destination URL address is an IP address to pass.

System view

web url-filter host load-file

Use the **web url-filter host load-file** command to load the URL address filtering file.

System view

web url-filter host save-file

Use the **web url-filter host save-file** command to save a URL address filter file.

System view

web url-filter parameter add

Use the **web url-filter parameter add** command to add a keyword for URL parameter filtering.

System view

web url-filter parameter add-default

Use the **web url-filter parameter add-default** command to add default filter keywords ^select^, ^insert^, ^update^, ^delete^, ^drop^, --, ', ^exec^ and %27 to facilitate the user to input these keywords from being carelessly deleted or to enable the user to restore the default settings quickly if the **web url-filter parameter add-default** command was improperly executed.

System view

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`web url-filter parameter delete`

Use the **web url-filter parameter delete** command to delete a filter keyword previously added.

System view

`web url-filter parameter delete-all`

Use the **web url-filter parameter delete-all** command to delete all filter keywords.

System view

`web url-filter parameter enable`

Use the **web url-filter parameter enable** command to enable URL parameter filtering.

System view

`web url-filter parameter load-file`

Use the **web url-filter parameter load-file** command to load a URL parameter filtering file.

System view

`web url-filter parameter save-file`

Use the **web url-filter parameter save-file** command to save a URL parameter filter file.

System view

`wfq`

Use the **wfq** command to set the queue type of the VC to be WFQ.

Frame Relay Class view

`wildcard-register enable`

Use the **wildcard-register enable** command to enable fuzzy (wildcard) telephone number registration.

SIP Client view

`wred`

Use the **wred** command to configure drop mode as weighted random early detection (WRED).

Traffic Behavior view

`wred dscp`

Use the **wred dscp** command to set DSCP lower-limit, upper-limit and drop probability denominator of WRED.

Traffic Behavior view

`wred ip-precedence`

Use the **wred ip-precedence** command to set precedence lower-limit, upper-limit and drop probability denominator of WRED.

Traffic Behavior view

`wred weighting-constant`

Use the **wred weighting-constant** command to set exponential for the calculation of average queue length by WRED.

Traffic Behavior view

`x25 alias-policy`

Use the **x25 alias-policy** command to configure the alias of an X.121 address.

Interface view

`x25 call-facility`

Use the **x25 call-facility** command to set user options for an X.25 interface. After an option is set, all X.25 calls from the X.25 interface will carry the relevant information field in call packet.

Interface view

`x25 cug-service`

Use the **x25 cug-service** command to enable CUG service and suppression policies.

Interface view

`x25 default-protocol`

Use the **x25 default-protocol** command to set the default upper-layer protocol carried over X.25 for the X.25 interface.

Interface view

`x25 default-protocol`

Use the **x25 default-protocol** command to set the upper layer protocol for an X.25 interface that X.25 protocol carries by default.

Interface view

`x25 hunt-group`

Use the **x25 hunt-group** command to create or enter an X.25 hunt group.

System view

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`x25 ignore called-address`

Use the **`x25 ignore called-address`** command to enable it to ignore the X.121 address of the called DTE when X.25 initiates calls.

Interface view

`x25 ignore calling-address`

Use the **`x25 ignore calling-address`** command to enable it to ignore the X.121 address of the calling DTE when X.25 initiates calls.

Interface view

`x25 local-cug`

Use the **`x25 local-cug`** command to configure mapping from local CUG to network CUG and define its suppression rule.

Interface view

`x25 map`

Use the **`x25 map`** command to set the address mapping between IP address used by LANs and X.121 address.

Interface view

`x25 map bridge`

Use the **`x25 map bridge`** command to map an X.121 address to a bridge-set.

Interface view

`x25 map clns`

Use the **`x25 map clns`** command to configure a CLNS address mapping for an X.121 address.

Interface view

`x25 modulo`

Use the **`x25 modulo`** command to set the window modulus of an X.25 interface.

Interface view

`x25 packet-size`

Use the **`x25 packet-size`** command to set the maximum input and output packet lengths of X.25 interface.

Interface view

`x25 pvc`

Use the **`x25 pvc`** command to configure one PVC route encapsulated with datagram.

Interface view

`x25 pvc`

Use the **`x25 pvc`** command to configure an X.25 PVC route.

Interface view

`x25 qllc-switch`

Use the **`x25 qllc-switch`** command to create a QLLC switching map entry, an association of X.121 address, MAC address of the SNA device, and local virtual MAC address.

Synchronous Serial Interface view

`x25 queue-length`

Use the **`x25 queue-length`** command to set the data queue length on X.25 VC.

Interface view

`x25 receive-threshold`

Use the **`x25 receive-threshold`** command to set the number of receivable maximum packets before X.25 sends the acknowledged packet.

Interface view

`x25 response called-address`

Use the **`x25 response called-address`** command to enable X.25 to carry the address information of the called DTE in sending call reception packet.

Interface view

`x25 response calling-address`

Use the **`x25 response calling-address`** command to enable X.25 to carry the address information of the calling DTE in sending call reception packet.

Interface view

`x25 reverse-charge-accept`

Use the **`x25 reverse-charge-accept`** command to enable this interface to accept the call with “reverse charging request”, the information added by some certain user facilities.

Interface view

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`x25 roa-list`

Use the **x25 roa-list** command to define ROA list.

System view

`x25 switch pvc`

Use the **x25 switch pvc** (packet switching) command to configure one PVC route.

Interface view

`x25 switch svc hunt-group`

Use the **x25 switch svc hunt-group** command to add an X.25 switching route whose forwarding address is a hunt group.

System view

`x25 switch svc interface`

Use the **x25 switch svc interface** command to add an X.25 switching route whose forwarding address is a serial interface or Annex G DLCI.

System view

`x25 switch svc xot`

Use the **x25 switch svc xot** command to add an X.25 switching route whose forwarding address is XOT channel.

System view

`x25 switching`

Use the **x25 switching** command to enable the X.25 switching function.

System view

`x25 template`

Use the **x25 template** command in system view to create an X.25 template and in DLCI view to reference the template.

System view
DLCI view

`x25 timer hold`

Use the **x25 timer hold** command to set the delay to send calls to a destination with failed calls.

Interface view

`x25 timer idle`

Use the **x25 timer idle** command to set the maximum idle time of the SVC on the interface.

Interface view

`x25 timer tx0`

Use the **x25 timer tx0** command to set the restart/retransmission timer delay for DTE (or DCE).

Interface view

`x25 timer tx1`

Use the **x25 timer tx1** command to set calling request (indication) transmission timer delay for DTE (or DCE).

Interface view

`x25 timer tx2`

Use the **x25 timer tx2** command to set resetting request (indication) transmission timer delay for DTE (or DCE).

Interface view

`x25 timer tx3`

Use the **x25 timer tx3** command to set clearing request (indication) transmission timer delay for DTE (or DCE).

Interface view

`x25 vc-per-map`

Use the **x25 vc-per-map** command to set the maximum number of VCs for connections with the same destination device.

Interface view

`x25 vc-range`

Use the **x25 vc-range** command to set highest and lowest values of X.25 VC range.

Interface view

`x25 window-size`

Use the **x25 window-size** command to set the sizes of input and output windows on the interface X.25.

Interface view

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`x25 x121-address`

Use the **`x25 x121-address`** command to set the X.121 address of an X.25 interface.

Interface view

`x25 xot pvc`

Use the **`x25 xot pvc`** command to add a PVC route of XOT. Use the **`undo x25 pvc`** command to delete the specified PVC route of XOT.

Interface view

`x29 timer idleclear`

Use the **`x29 timer idleclear`** command to set the idle-clear timer for PAD connection.

System view

`x29 timer inviteclear-time`

Use the **`x29 timer inviteclear-time`** command to set the delay waiting for response after the PAD clear procedure is initiated. Upon expiration of this timer, the server aborts the connection by force and starts X.25 clear procedures.

System view

`xmodem get`

Use the **`xmodem get`** command to download a file by using Xmodem through the AUX port. Comware supports 128-byte packets and CRC check.

User view

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